SERVICE MANUAL

Multi-media Projector

SANYO

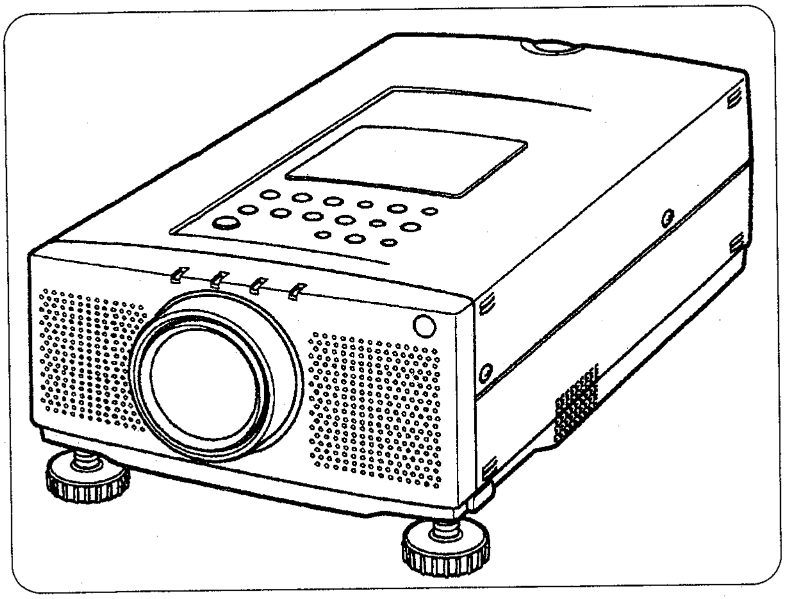
FILE NO.

Model no.

PLC-SP10E
(Europe,Asia,Africa,M.E.)

PLC-SP10B
(U.K.)

PLC-SP10
(NO-TAX)



ORIGINAL VERSION

Service Ref.No.	PLC-SP10E-00 PLC-SP10B-00 PLC-SP10-00

PRODUCT CODE
P6YA (PLC-SP10E) ; 1122 057 00
P6YC (PLC-SP10B) ; 1122 057 02
P6YZ (PLC-SP10) ; 1122 057 19

REFERENCE NO. SM515049

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Safety Instructions

SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⟍⟍⟍) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (W x H x D)	272 mm × 145.5 mm × 412.5 mm
Net Weight	6.6 kg
LCD Panel System	1.3" TFT Active Matrix type (Thin Film Transistor) × 3
Number of Pixels	1,440,000 {480,000 (800 × 600) × 3}
Colour System	5 colour system (PAL, SECAM, NTSC, NTSC4.43 and PAL-M)
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
Projection Image Size (Diagonal)	Adjustable from 30" to 300"
Contrast Ratio	300 :1
Horizontal Resolution	750 TV lines
Projection Lens	F1.8 ~ 2.1 lens with f48.4 mm ~ 62.8 mm Motor zoom and focus
Throw Distance	1.4 m ~ 10.8 m
Projection Lamp	160 watt SID Lamp
Projection Mirror	Dichroic mirror and X-prism system
AV Input jacks	PHONO Type × 1 (Video, Audio R and L) and DIN 4 pin (S-Video) × 1
Computer Input Jack	(VGA) HDB15 Terminal × 2, Multi-pole 12 pin (Control port) × 2
Monitor Output Jack	(VGA) HDB15 Terminal × 1
Computer Audio Input Jack	Mini Stereo Type × 2
Video Monitor Output Jack	PHONO Type × 1
Audio Monitor Output Jacks	PHONO Type × 1 (R and L)
Other Jacks	EXT. Speaker Jack × 1
Built-in Speaker	INT. SP. Stereo (R and L), 2 watt RMS (T.H.D. 10%)
Image Elevation Adjustment	Up to 6°
Voltage	200 ~ 240V AC, 50/60 Hz (Model PLC-XP10E / XP10B)
	110 ~ 120V AC, 50/60 Hz (Model PLC-XP10)
Power Consumption	1.5A (Max. Ampere) Model PLC-XP10E / XP10B
	2.9A (Max. Ampere) Model PLC-XP10
Operating Temperature	5℃ ~ 35℃
Storage Temperature	− 10℃ ~ 60℃
Remote Control Battery	(2) AA, UM3 or R06 Type

■ Circuit Protections

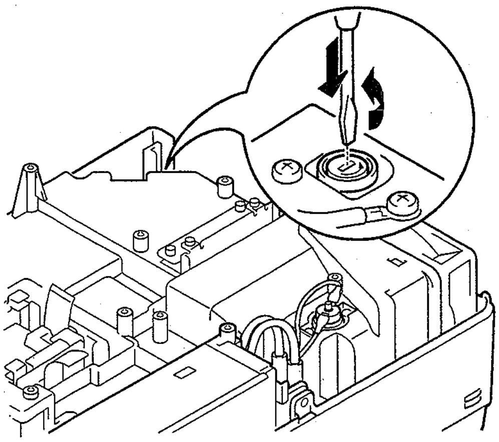
This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

The fuse is located inside the projector. When the Mains switch on the rear panel is turned on and the lamp indicator does not illuminate, fuse may be open. Remove the cabinet and check the fuse.

It should be used the specified fuse as follows;

Fuse Part No.: 423 022 2102
TYPE T4AH 250V FUSE
LITTLE FUSE INC. TYPE 215004



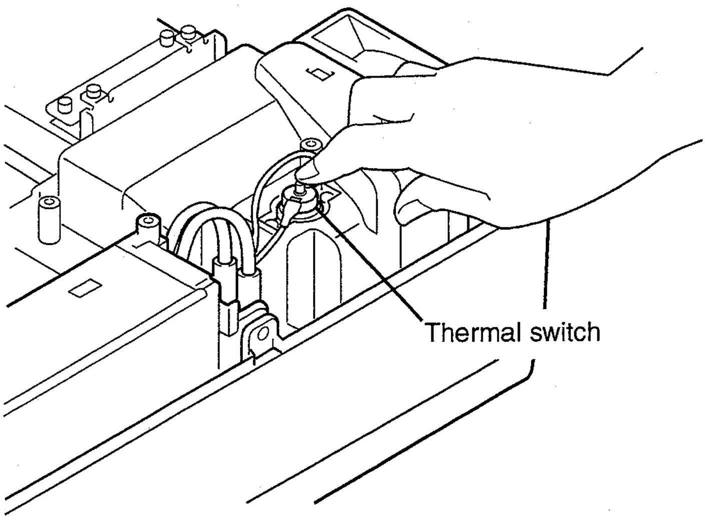
How to replace the fuse

1. Disassemble the cabinet and main unit following to steps 2 to 4 of "Mechanical Disassemblies".
2. To remove the fuse holder, press and turn left the fuse holder by using slot screwdriver.

To install the fuse, take reversed step in the above.

Thermal switch

If temperatures around the lamp reaches to 100 °C, the thermal switch(SW905) will be activated and shut off mains power supply.
Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.
To return to normal operation, press the reset button on the thermal switch inside the projector as following procedure.



How to reset the thermal switch

1. Disassemble the cabinet and main unit following to steps 2 to 4 of "Mechanical Disassemblies".
2. Press the reset button on thermal switch.

Caution:
Before press the reset button, disconnect the AC cord from the projector.

Warning temperature and power failure protection

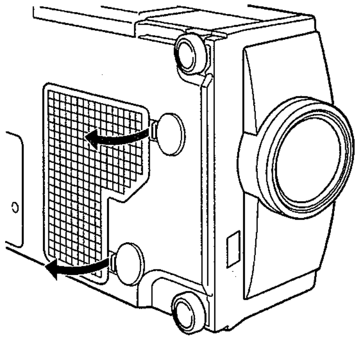
The TEMP WARNING indicator flashes red and the projector will automatically turn off when the internal temperature of the projector exceeds the normal temperature or when stopping cooling fans or when the internal power supply lines are failed.

Check the following possible causes and wait until stopping the TEMP WARNING indicator flashing.

Possible causes
- Check air filter for dust accumulation, please clean up the air filter.
- Check there are no object around the projector.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C)

If the TEMP WARNING indicator still continues to flash, there may be defects on cooling fans or power supply circuits. Please check fan operation and power supply lines referring to the "Power Supply Lines Chart".

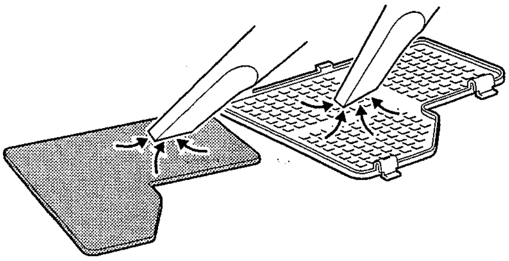
Air Filter care and cleaning



The removable air filter prevents dust from accumulation on the surface of the projection lens and projection mirror. Should be the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean up the air filter, follow the cleaning procedure below:

1. Turn the MAINS ON/OFF switch to OFF, and disconnect the AC power code from the AC outlet.
2. Remove the air filter cover.
   Press the cover latch sideway and lift the cover.
3. Remove the air filter from the filter cover.
4. clean the air filter with a vacuum cleaner.
5. Replace the air filter. Make sure that air filter cover is fully inserted.



CAUTION:
Do not clean with water.
Do not operate the projector with air filter removed.

RECOMMENDATION
We recommend to avoid dusty.smoky place for operating the projector.
Using in dusty place may cause the picture of poor quality.
When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed, please clean up the LCD panel and lens following to the "Cleaning Method".

Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1. CABINET COVER REMOVAL

1) Slide the locking lever in the direction of the arrow by using slot screwdriver (Fig.1) and lift up the cover slightly.
2) Insert two 1mm slot screwdrivers to the slots of the cabinet top at the same time. Turn them in the arrow direction gently to lift off the cabinet cover upward.

Note:
Be careful not to damage the cabinet finish when removing it.

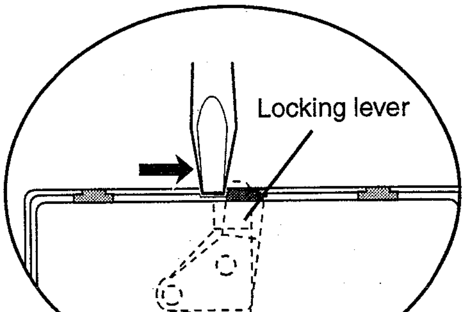


Fig.1

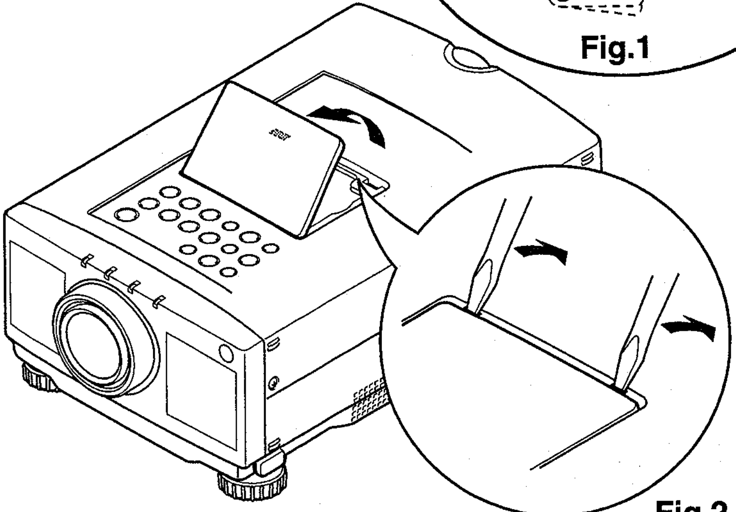


Fig.2

2. CABINET TOP REMOVAL

1) Remove 4 screws on side cabinet and 1 screw on rear.
2) Grasp the two sides, pull the cabinet top upward and remove.

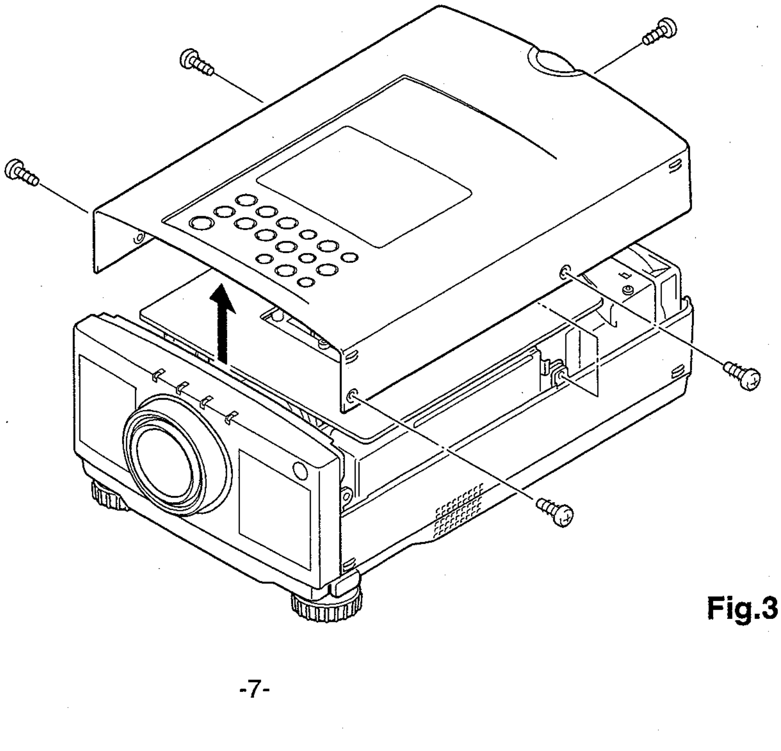


Fig.3

3. CABINET FRONT REMOVAL

1) Remove 2 screws on cabinet front bottom.
2) Grasp the two sides, pull the cabinet front forward and remove.

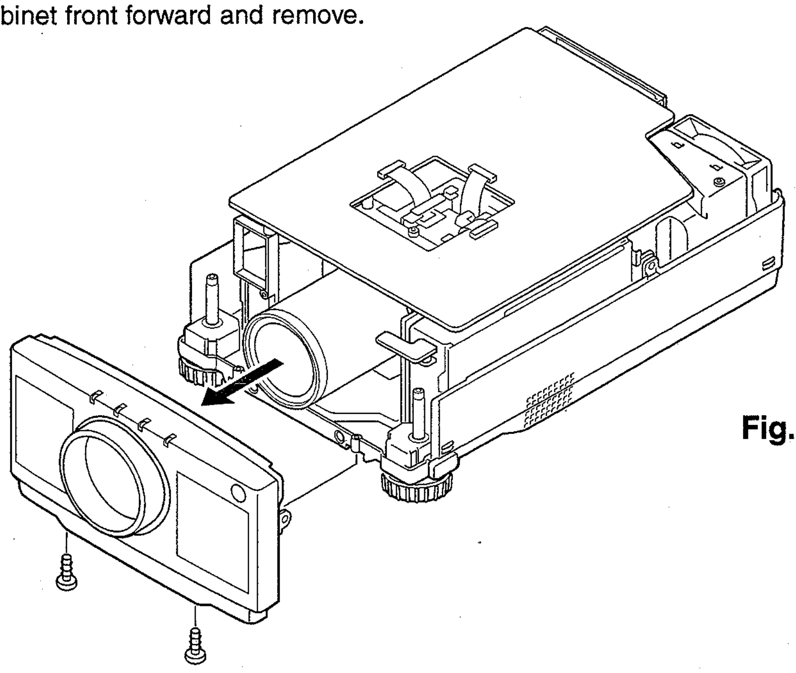


Fig.4

4. MAIN, A/V, VIDEO AND RC UNIT REMOVAL

1) Remove 7 screws(A) and disconnect the FPC cables and then remove the main unit
2) Remove 2 screws(B), 1 screw(C) and then pull the A/V unit downward and remove.
3) Remove 4 screws(D), then remove the A/V panel.
4) Release a hook on the A/V panel and then remove the RC2 unit.
5) Remove 2 screws(E) and then remove the video unit.
6) Remove 1 screw(F) and then remove the RC1 unit.

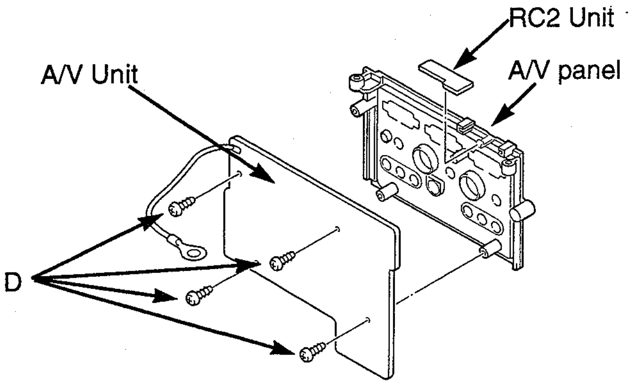

RC2 Unit
A/V Unit
A/V panel
D

Fig.6

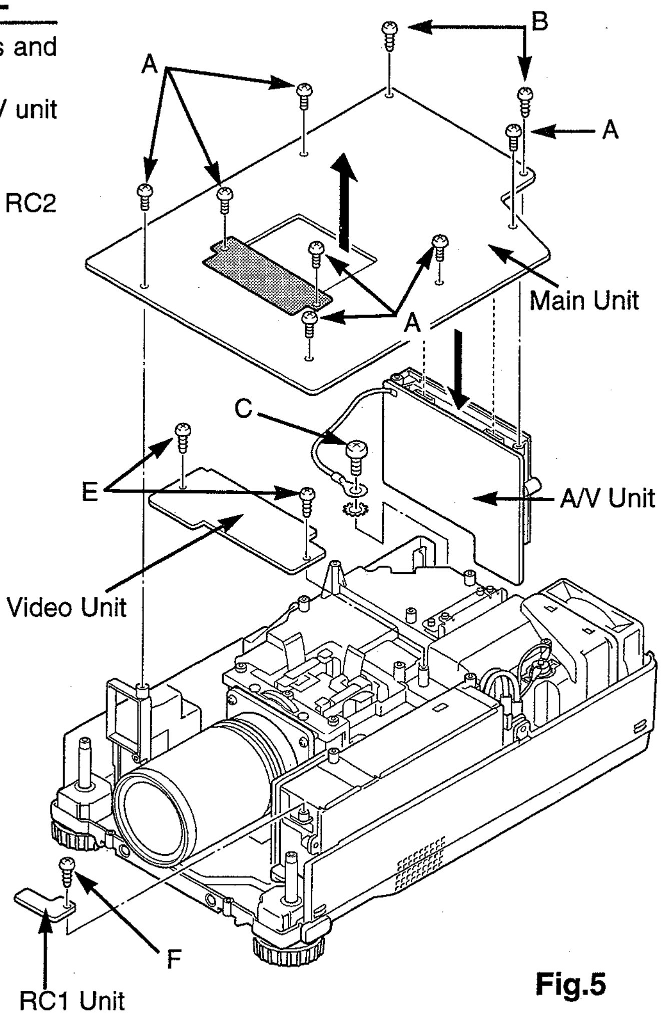

B
A
A
Main Unit
A
C
E
A/V Unit
Video Unit
F
RC1 Unit

Fig.5

5. LED UNIT AND SPEAKER REMOVAL

1) Release two hooks(A) and pull out the LED unit.
2) Remove 4 screws(B) and then remove the speakers.

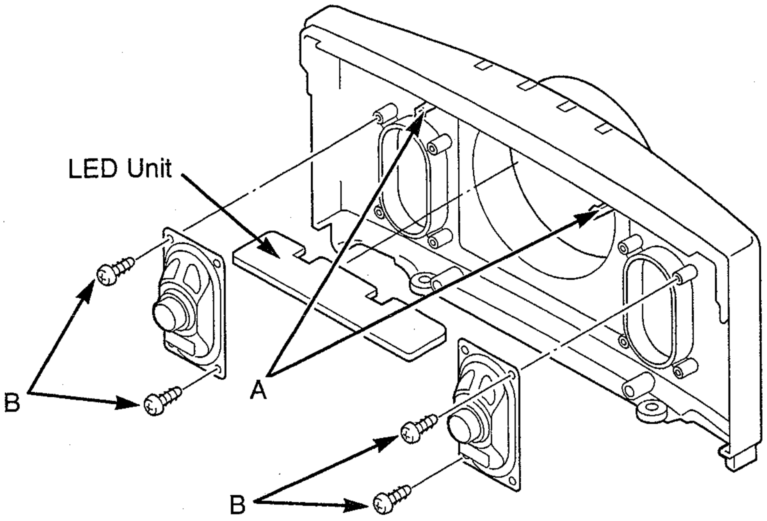
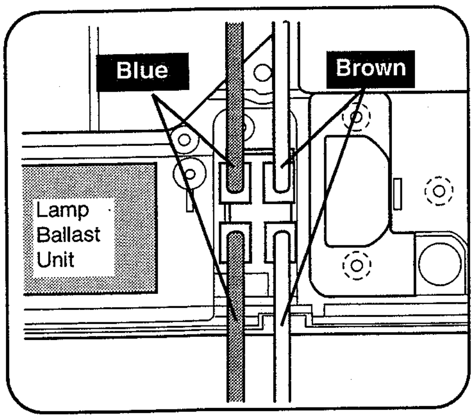

LED Unit
A
B
B

Fig.7

6. LAMP BALLAST BOX AND FAN (FN905) REMOVAL

1) Remove 2 screws(A), 2 screws(B) and 2 screws(C), and then pull the lamp ballast box upward and remove.
2) pull the fan (FN905) upward and remove.

Note:
Be careful to connect the lamp socket.
Please see following illustrations.


Blue
Brown
Lamp
Ballast
Unit

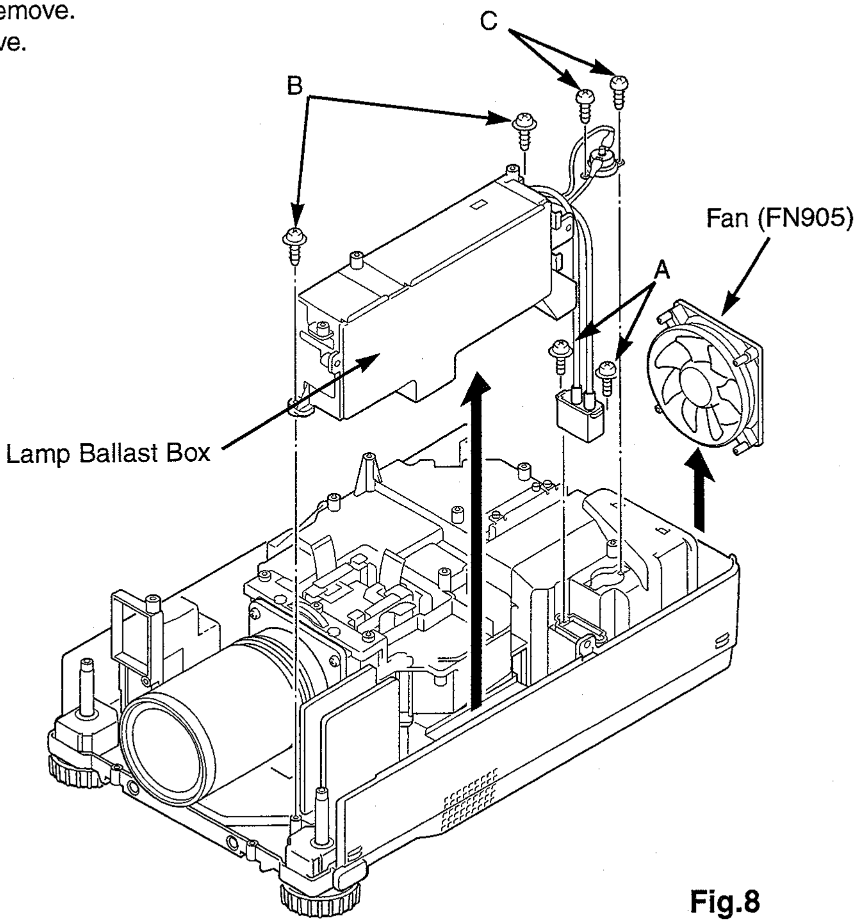

C
B
Fan (FN905)
A
Lamp Ballast Box

Fig.8

7. OPTICAL UNIT AND FAN (FN904) REMOVAL

1) Remove 6 screws(A) and then pull the optical unit upward and remove.
2) Remove 2 screws(B) and remove the fan (FN904).

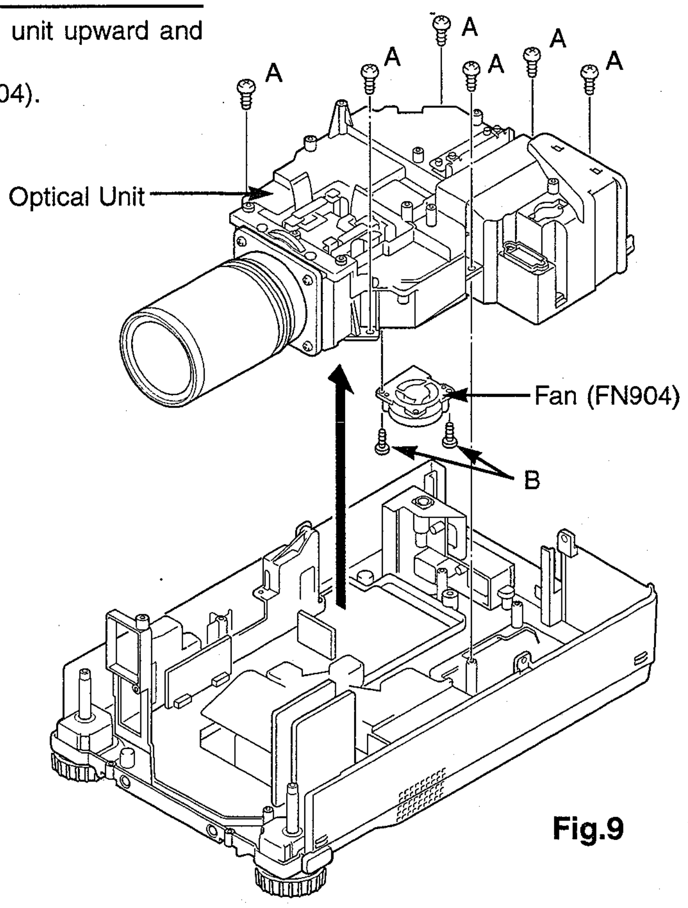

A
A
A
A
A
A
Optical Unit
Fan (FN904)
B

Fig.9

8. POWER SWITCH UNIT REMOVAL

1) Remove 5 screws and then pull the power switch unit upward.

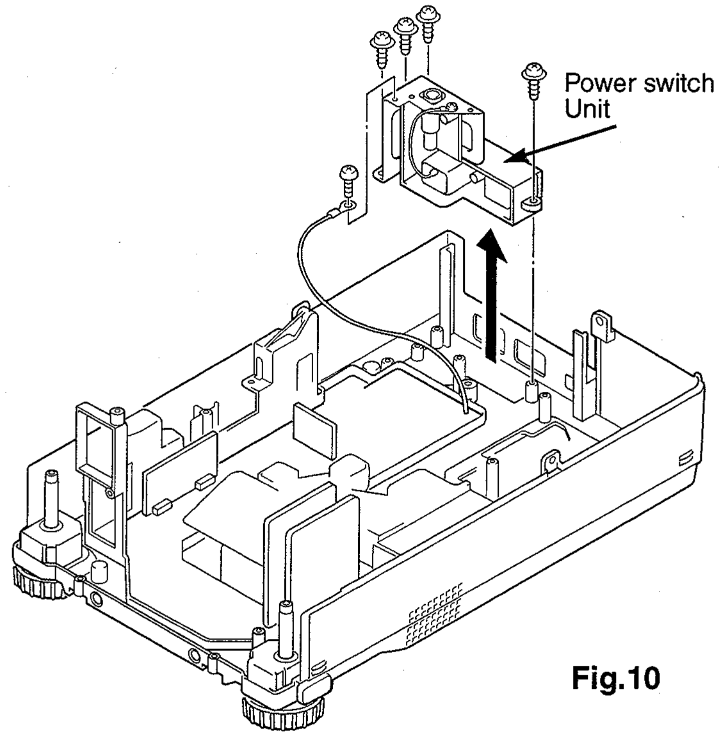

Power switch
Unit

Fig.10

9. FAN (FN901, FN902) , AIRDUCT REMOVAL

1) Remove 4 screws(A) and pull the airduct, fan (FN901), and fan (FN902) upward.
2) Remove 4 screws(B) to disassemble the airduct assembly.

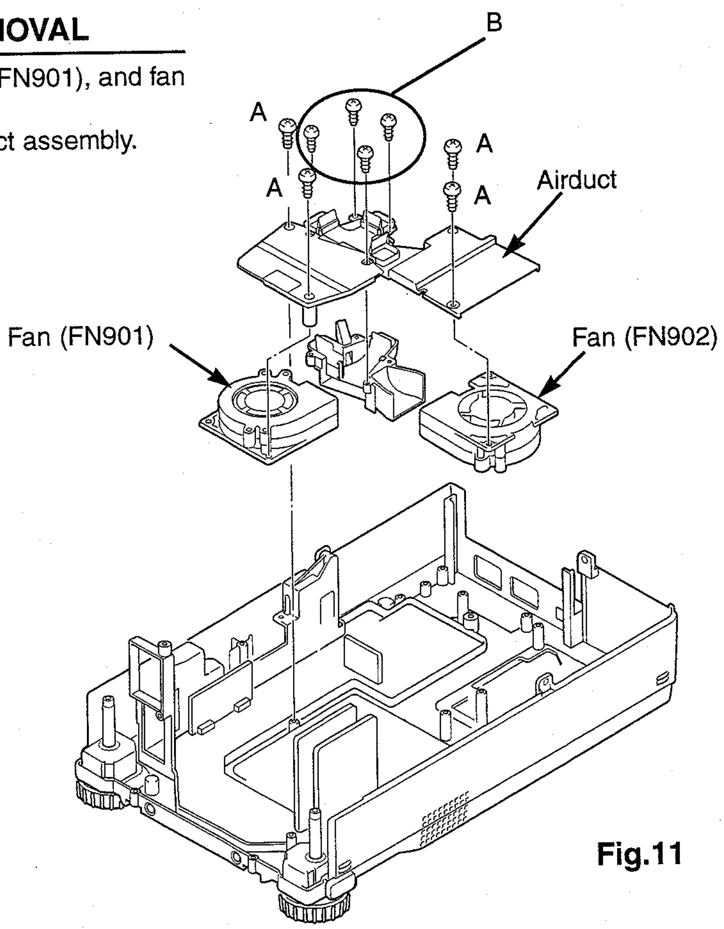

B
A
A
A
A
Airduct
Fan (FN901)
Fan (FN902)

Fig.11

10. POWER UNIT HOLDER REMOVAL

1) Remove 6 screws, pull the power unit holder upward.

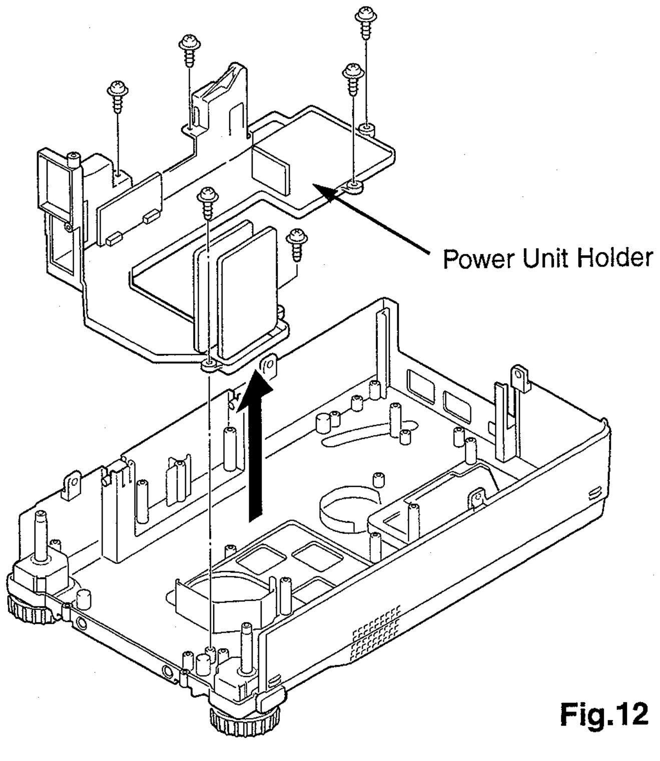

Power Unit Holder

Fig.12

11. POWER, SUB POWER AND A&M DRIVE UNIT REMOVAL

1) Pull the sub-power and A&M drive unit upward.
2) Remove 7 screws and pull the power unit upward.

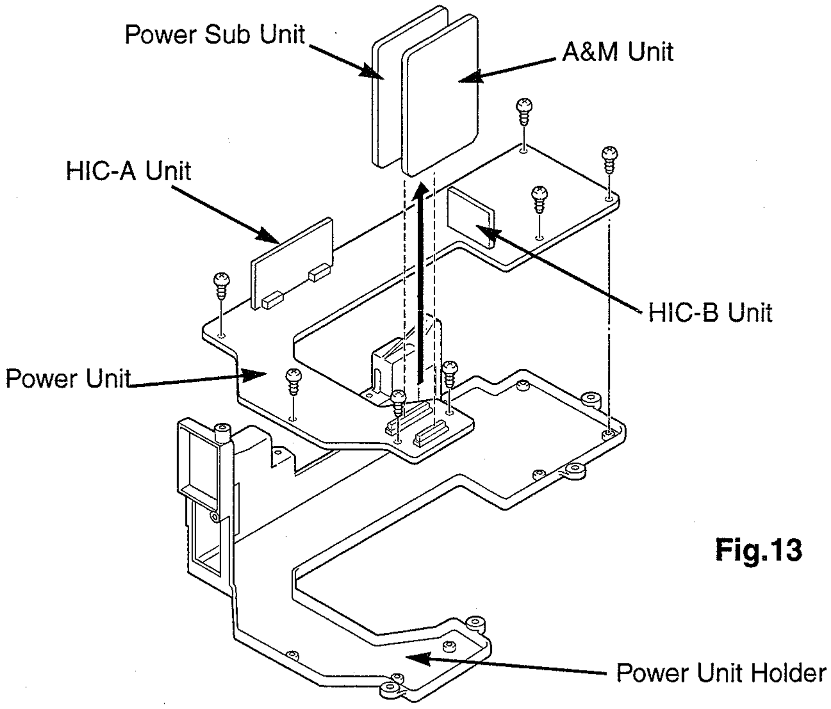

Power Sub Unit
A&M Unit
HIC-A Unit
HIC-B Unit
Power Unit
Power Unit Holder

Fig.13

12. LAMP BALLAST UNIT AND FAN (FN903) REMOVAL

1) Remove 2 screws(A) and remove the shield cover.
2) Remove 4 screws(B) and pull the lamp ballast unit upward.
3) Pull the fan (FN903) upward.

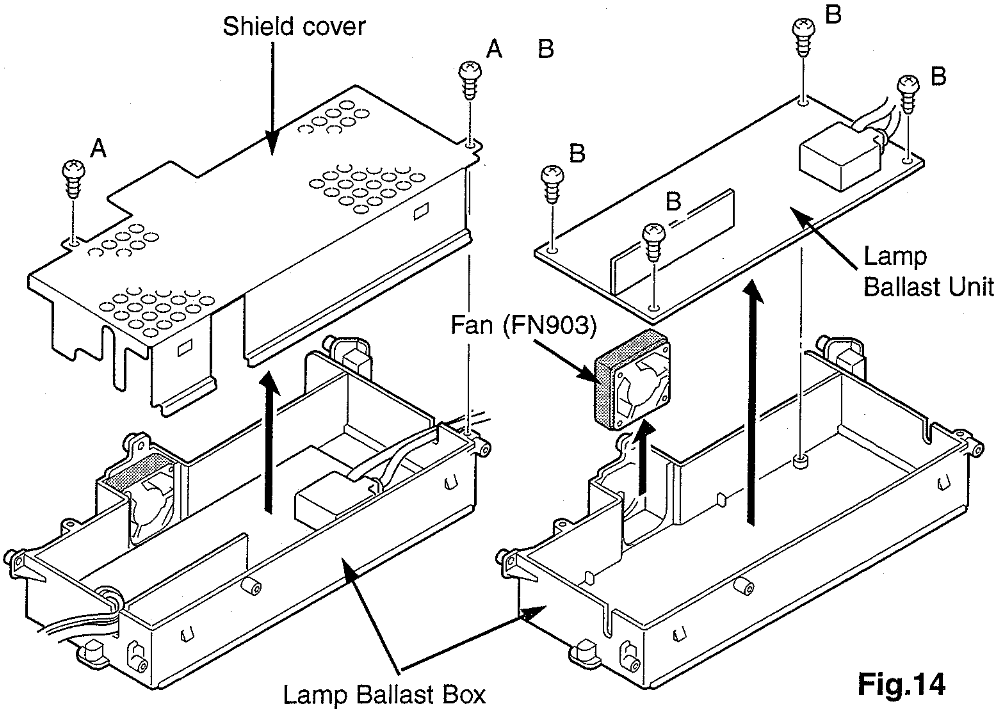

Shield cover
A
A
B
B
B
B
B
Fan (FN903)
Lamp Ballast Unit
Lamp Ballast Box

Fig.14

■ Optical Unit Disassemblies

Remove the cabinet, cabinet front, main, video and A/V unit following to steps 2 to 4 of "Mechanical Disassemblies".

1. LENS ASSY REMOVAL

1) Remove 4 screws and remove the lens assy.

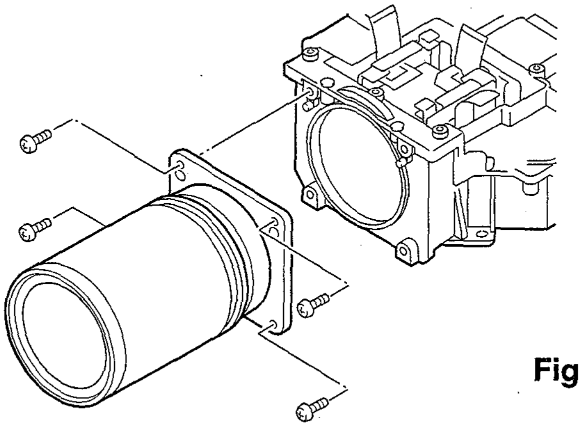


Fig.1

2. RELAY LENS AND INTEGRATOR LENS AND POLARIZED GLASS R, G, B REMOVAL

1) Remove 2 screws(A) and then pull the relay lens upward.
2) Remove 2 screws(B) and then pull the integrator lens upward.
3) Remove each screw(C) and then pull the polarized glass R, G, B upward.

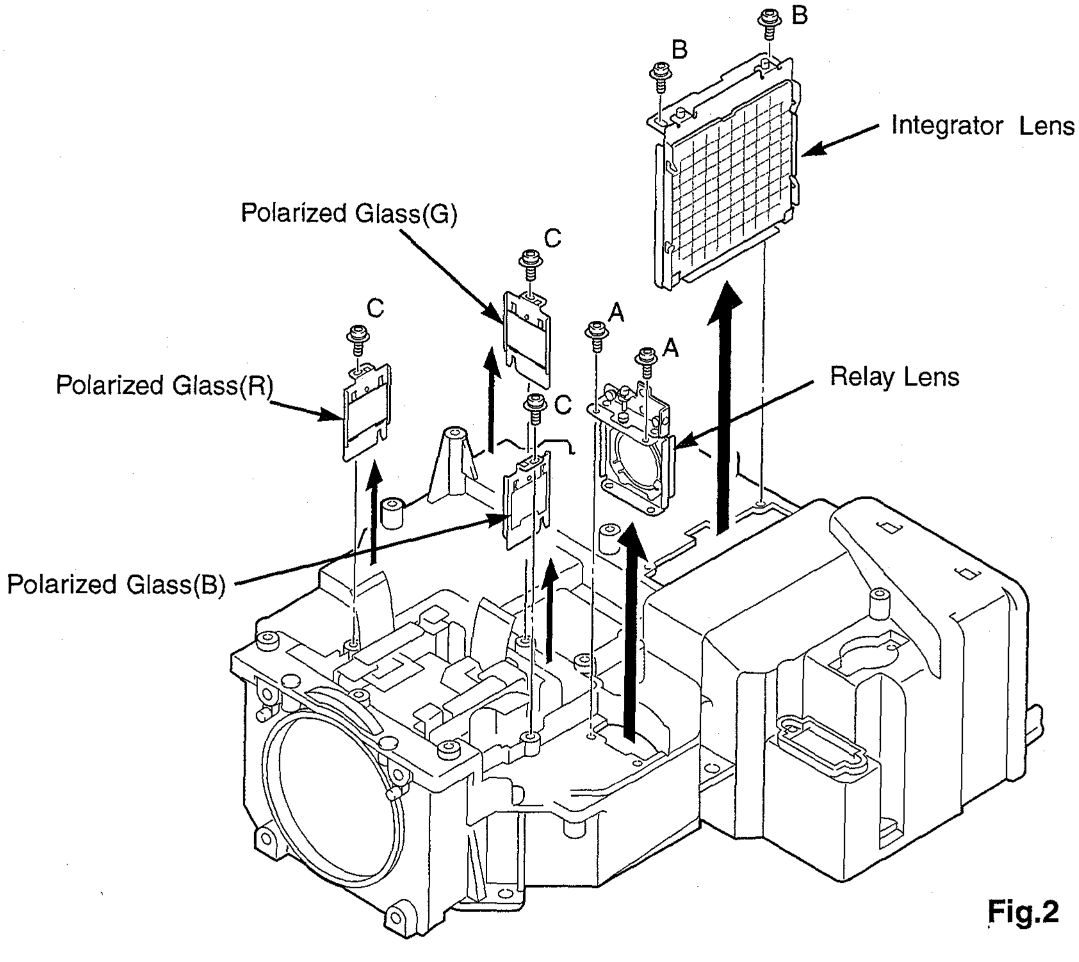

B
B
Integrator Lens
Polarized Glass(G)
C
C
A
A
Relay Lens
Polarized Glass(R)
C
Polarized Glass(B)

Fig.2

2. POLARIZED GLASS DISASSEMBLY

1) Release 2 hooks and then pull the polarized glass upward.

Note:
Polarized glasses must be mounted as the face which the polarized film is attached to the prism side.

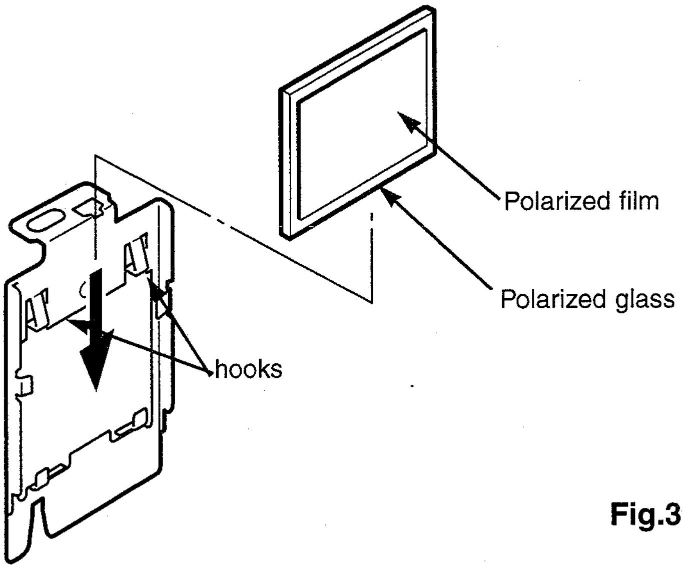

Polarized film
Polarized glass
hooks

Fig.3

3. RELAY LENS DISASSEMBLY

1) Remove 2 screws
2) Remove lens holder and then remove relay lens and optical filter.

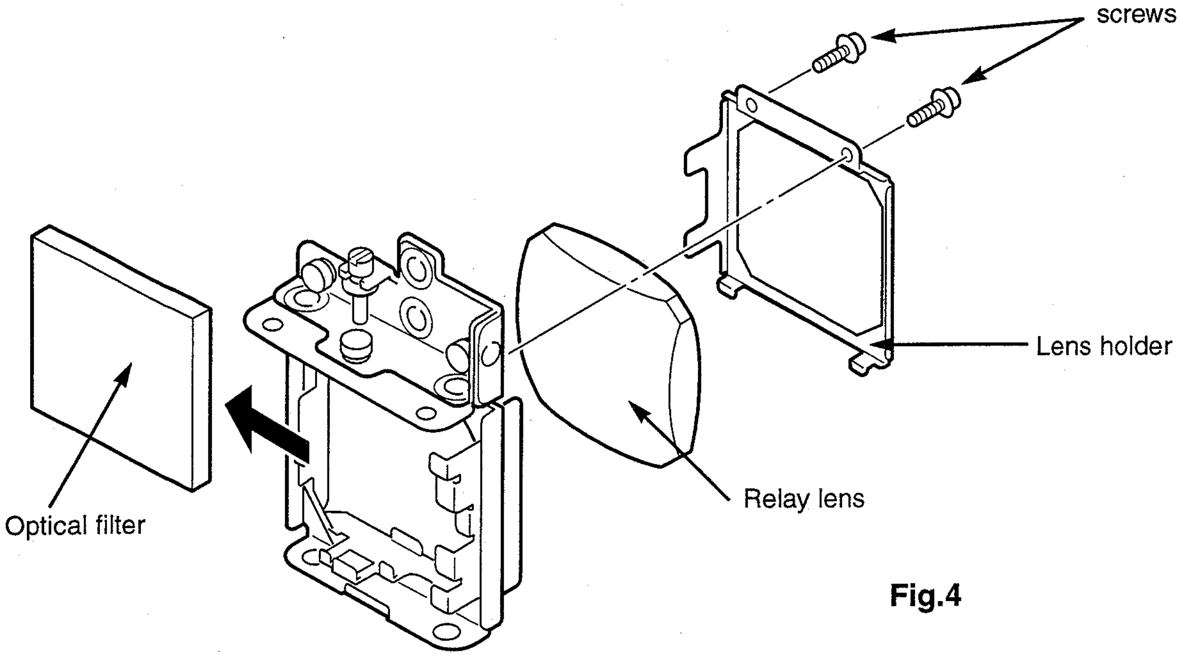

screws
Lens holder
Relay lens
Optical filter

Fig.4

4. INTEGRATOR LENS DISASSEMBLY

1) Remove 2 stoppers downward and twist 7 hooks and then remove integrator lens.

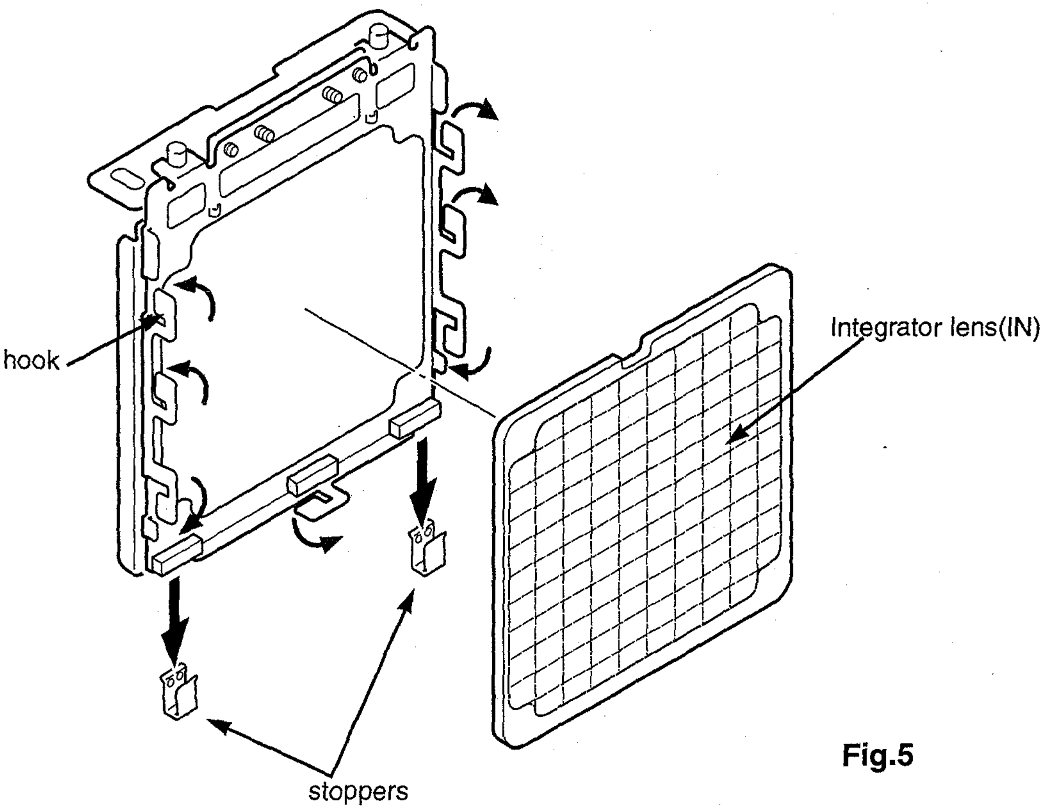

hook
Integrator lens(IN)
stoppers

Fig.5

5. OPTICAL UNIT TOP COVER REMOVAL

1) Remove 9 screws and then pull the cover upward.

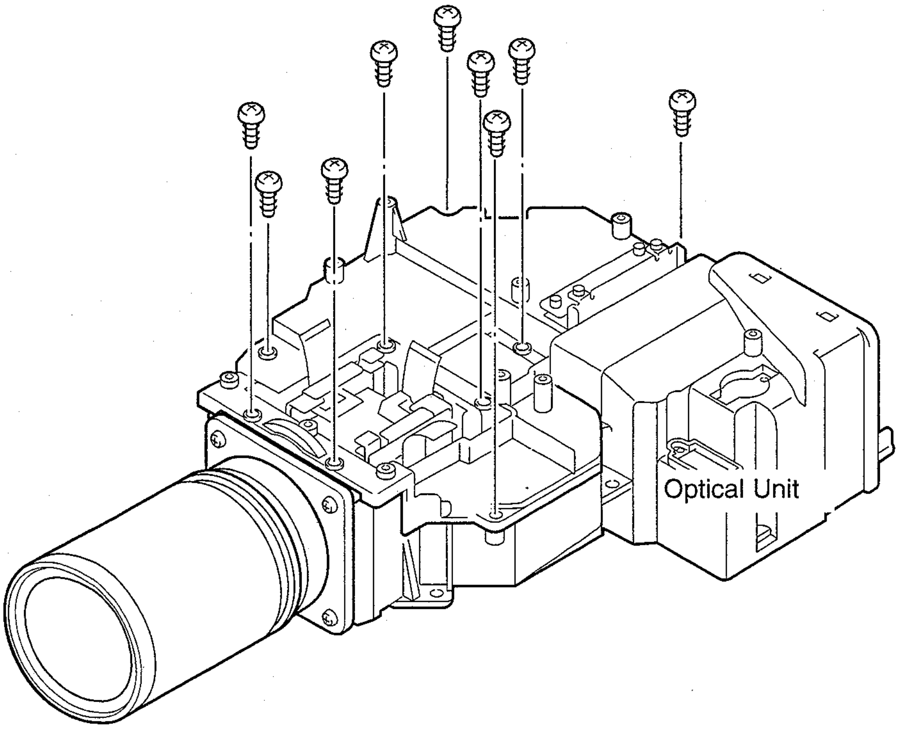

Optical Unit

Fig.6

Parts Name and Locations

When the optical parts mounting or assembling, the parts must be mounted in the specified location and direction. Please refer to the figure below and "Mounting direction of optical parts" on next page.

No.	Part name	No.	Part name
1	Prism	11	Mirror (B)
2	Prism (Polarized Beam Splitter)	12	Dichroic mirror (G)
3	Lens integrator(OUT)	13	Lens relay (IN)
4	Lens condenser (IN)		
5	Mirror (W)		
6	Lens condenser (OUT)		
7	Dichroic mirror (R)		
8	Lens condenser		
9	Mirror (R)		
10	Lens condenser		

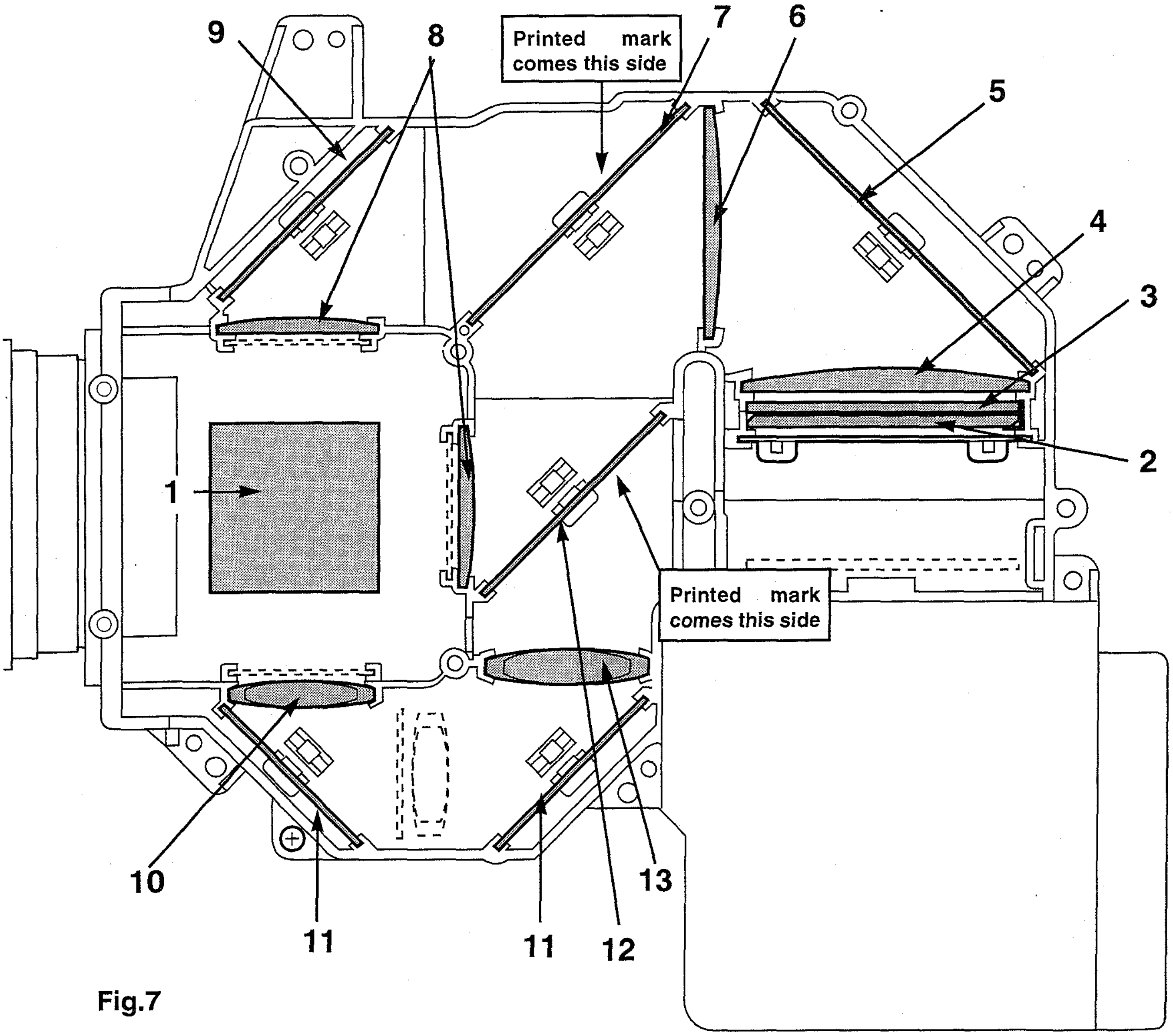

9
8
Printed mark comes this side
7
6
5
4
3
2
1
Printed mark comes this side
10
11
11
12
13

Fig.7

Mounting direction of optical parts

The optical parts must be mounted in specified direction otherwise the picture image will not project correctly.

- Mirror mounting (Ref.No.5, 9, 11)
Mount the mirror with coating side(mirror side) inside.

- Lens mounting
Lens (Ref. 4, 6, 8) must be mounted as shown in Fig.7.
Lens (Ref.No. 10, 13) has no mounting direction.
Lens (Ref.No. 2, 3) must be mounted as shown in Fig.8.

- Dichroic Mirror mounting
Dichroic mirrors (Ref. No. 7, 12) must be mounted as shown in Fig.7.

Top view of integrator lens (OUT)

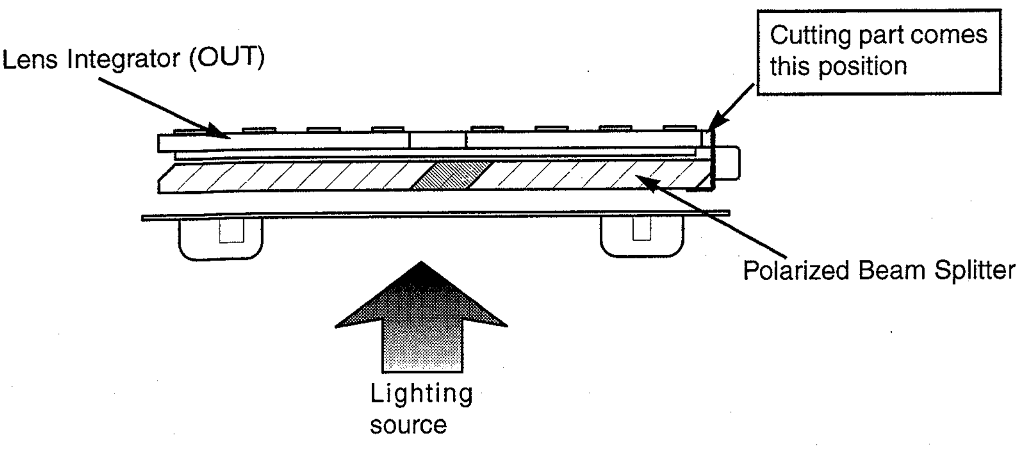

Lens Integrator (OUT)
Cutting part comes this position
Polarized Beam Splitter
Lighting source

Fig.8

■ Lamp Replacement

WARNING:

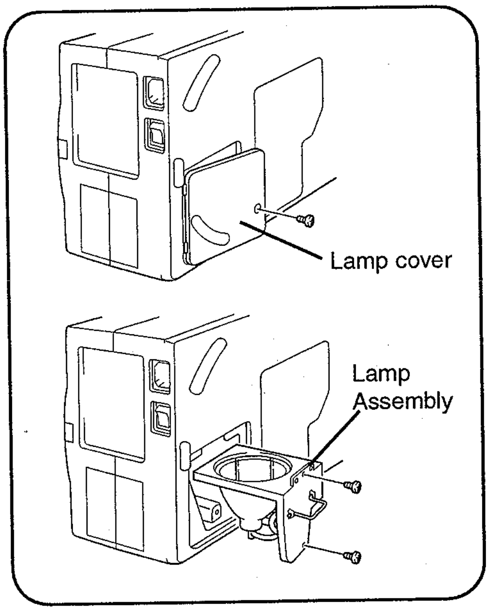
- For continued safety, replace with a lamp assembly of the same type. **Part No.: 610 276 3010**
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

1. Disconnect the AC cord from the projector.
2. Remove a screw with a screwdriver and remove the lamp cover.
3. Remove 2 screws and pull out the lamp assembly by grasping the handle.
4. Place the replacing lamp assembly securely and tighten 2 screws.
5. Place the lamp cover and tighten a screw.
6. Connect the AC cord to the projector.

7. Reset the lamp replacement monitor time, see below explanation.

Note:
Do not reset the LAMP REPLACEMENT MONITOR TIMER, except after the lamp is replaced.



How to reset the lamp replacement monitor timer

1. Turn the projector on. Press the “MENU” button on the projector and display menu bar. Select setting menu and select “Lamp age” on the setting menu of menu bar.
2. “lamp replace monitor Reset?” is displayed for confirmation.Select “Yes” to reset the lamp replace timer.

Please refer to the owners manual for further information.

Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to “Air Filter Cleaning”.

How to check the lamp illumination time

The LAMP REPLACE indicator will illuminate when the total illumination time of lamp reaches to 1000 hours. This is just a sign to indicate the life of lamp, so you do not need to replace new one urgently.

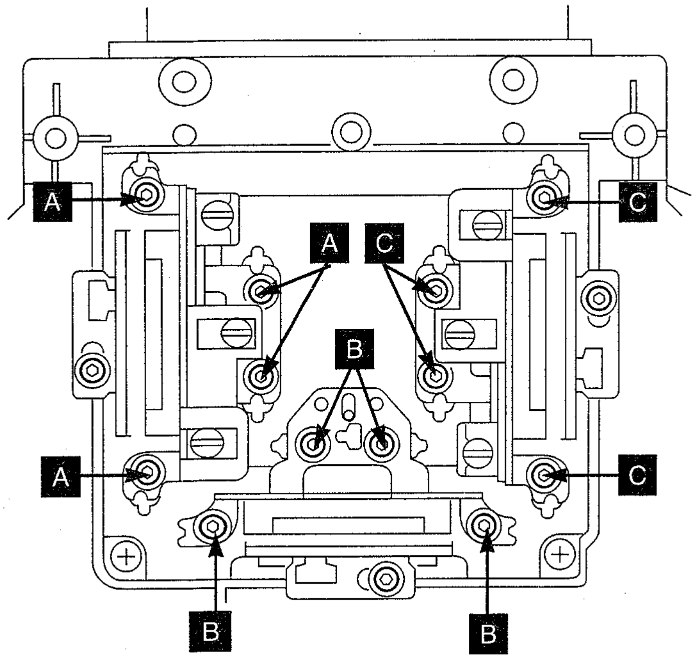
You can check the remaining time by following procedure.

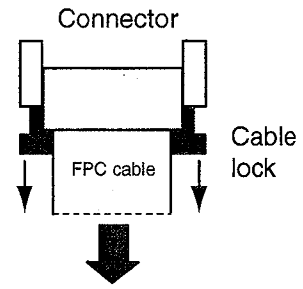
1. Press and hold the “MENU” and “NORMAL” button for more than 3 seconds.
2. Select data no. “24” by using the “POINT (▲)” or “POINT (▼)” button.
3. You can see the remaining time to “1000 hours”. For example: “0987” means 987 hours remaining.
4. Press the “POWER” button to quit the service mode.

■ LCD Panel Replacement

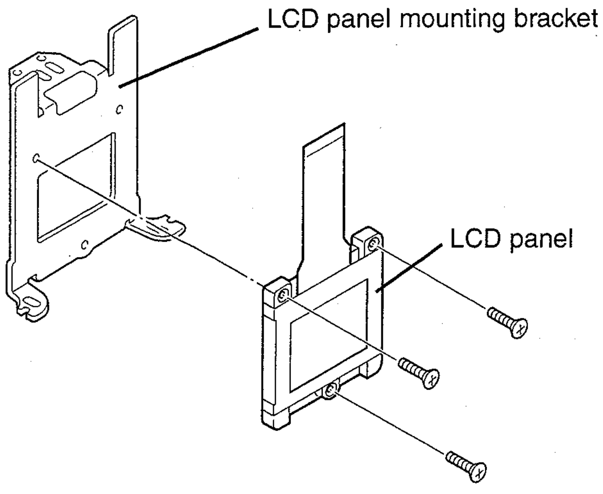
1. Remove the cabinet cover following to step 1 of "Mechanical Disassemblies".
2. Remove the FPC cable on the main unit.
3. Remove 4 screws(A) for B-Panel, 4 screws(B) for G-Panel and 4 screws(C) for R-Panel and pull the each LCD panel upward.
4. Remove 3 screws to take off the LCD panel from the panel holder.

When the LCD panel is replaced, it is required to re-adjust the white balance, focus, convergence and common center adjustments.(Refer to the Optical and electrical alignment.)

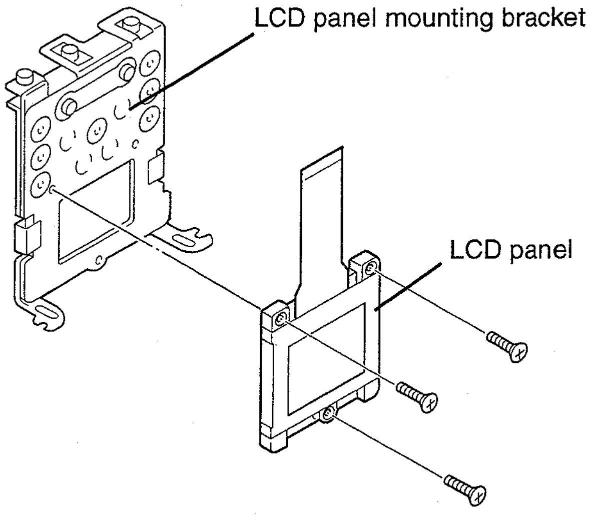

A
A
C
B
C
A
C
A
C
B
B


Connector
Cable lock
FPC cable

When disconnecting the FPC cable, pull out the cable lock from the connector and then disconnect the FPC cable.


LCD panel mounting bracket
LCD panel

G-panel unit


LCD panel mounting bracket
LCD panel

R, B-panel unit

■ Alignment Procedure

Service Adjustment Menu Operation

To enter the service mode

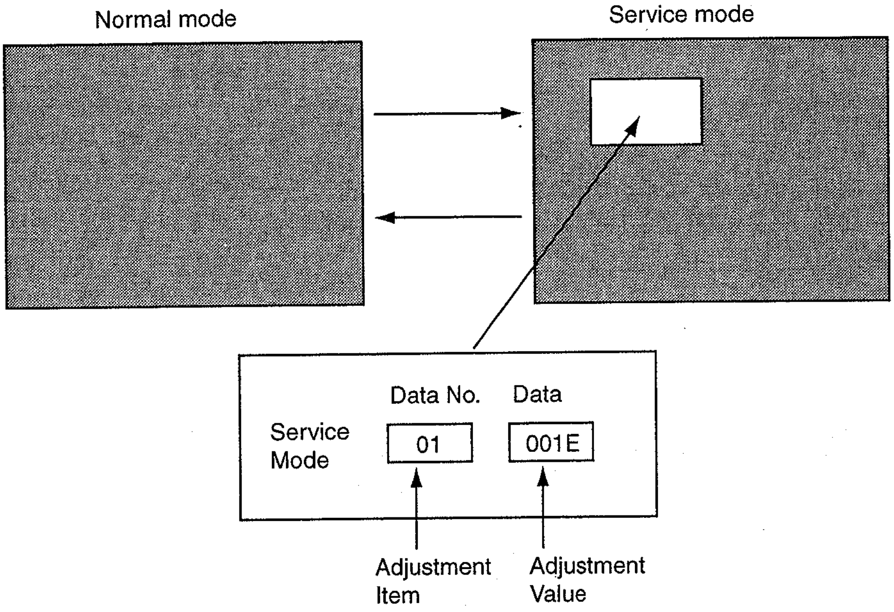
To enter the "Service Mode", press the "MENU" button and "NORMAL" button on the projector and hold for 3 seconds.

To adjust service data

Select the adjustment item by pressing the "POINT (▲)" or "POINT (▼)" button, and change the value by pressing the "VOLUME +" or "VOLUME -" button.

To return to the normal mode

To return to the "Normal mode", press the "POWER" button on the projector or remote control unit.



!! CAUTION: Do not replace IC803 unreasonably!!

IC803 (EP-ROM) memorizes the data adjusted at service mode, and should not be replaced except for the case of defective product.
Lamp illumination time, data no. 24 of service mode, is memorized in IC803 to indicate the span of lamp life.
When IC803 is replaced, lamp illumination time is reset to the initial value.
(Lamp illumination time can not be set to the previous value.)

- **Caution to replace IC803**

When the IC is replaced with new one, the CPU write in initial data in IC803. Initial data is not the same data as factory initial data, and the further adjustments are required. Please refer to "Electrical Adjustments" for further adjustments.
Lamp illumination time is reset to the initial value.

- **Caution to replace Assy Main (in the case IC803 is not damaged)**

When Assy Main unit is replaced, IC803 should be replaced with the one on previous Assy Main unit. After replacement, please refer to "Electrical Adjustments" for further adjustments.
Lamp illumination time keep the value as before.

IIC Data Adjustment

The initial value is the reference data writing to the memory IC by the CPU ROM when the memory IC replacing. The Adjustment item which is indicated with "*" is required to readjusted in the "Electrical adjustments". Other items should be used in the initial data value.

Data No. Screen Display	Adjustment Item Contents	Initial Value		Range	Description
		CG	AV		
00	RGB AMP (Gamma OFF)	* 001A			Same adjustment of item No.01 RGB AMP
01	RGB AMP (Gamma ON)	001A			Up or down Gamma R/G/B amp. gain at the same time. When one of the R, G or B value reaches to Max. or Min, the up or down operation is stopped.
02	S&H Test pattern display position	0004		0 ~ 0B	Display test pattern
03	GAMMA DLY CNT	* 0030		0 ~ 3F	
04	GAMMA G BIAS	000D		0 ~ 3F	
05	GAMMA R GAIN	* 0012		0 ~ 3F	
06	GAMMA R BIAS	000D		0 ~ 3F	
07	GAMMA B GAIN	* 0012		0 ~ 3F	
08	GAMMA B BIAS	000D		0 ~ 3F	
09	GAMMA R-B1P for AV	001C		0 ~ 3F	R-white balance in dark part in AV mode
0A	GAMMA B-B1P for AV	001C		0 ~ 3F	B-white balance in dark part in AV mode
0B	GAMMA G-B1P for AV	* 001C		0 ~ 3F	G-white balance in dark part in AV mode
0C	NOT USED	0000			
0D	DAC CLAMP LEVEL (SUB BRIGHT)	* 0025	* 0025	0 ~ 3F	
0E	DAC RGB GAIN (SUB CONTRAST)	* 002D	* 002D	0 ~ 3F	
0F	DAC RGB AMP	* 0026	* 0026	0 ~ 7F	
10	DAC R BIAS	* 0026	* 0026	0 ~ 7F	
11	DAC B BIAS	* 0026	* 0026	0 ~ 3F	
12	NOT USED	0000			
13	S&H B-CK	0044			
14	S&H G-CK	004E			
15	S&H R-CK	0046			
16	S&H B-SH	0000			
17	S&H G-SH	0000			
18	S&H R-SH	0000			
19	S & H HCK PHASE ADJ	0004		0 ~ 0F	
1A	cxa2076 AV SUB-COLOR ADJ	0009		0 ~ 0F	
1B	cxa2076 PEDESTAL ADJ.	* 0020		0 ~ 3F	
1C	cxa2076 AV R GAIN	* 0030		0 ~ 3F	
1D	cxa2076 AV G GAIN	* 0030		0 ~ 3F	
1E	cxa2076 AV B GAIN	* 0030		0 ~ 3F	
1F	cxa2076 AV SUB SHARPNESS	0003		0 ~ 0F	
20	FIL H-FILTER ON/OFF SW	0001		0 ~ 1	
21	FIL V-FILTER ON/OFF SW	0001		0 ~ 1	
22	AV OPTION Set	0000		0 ~ 1	
23	FIELD SW	0000		0 ~ 2	
24	LAMP ILLUMINATION TIME	1000			Read Only(Can not be modified)
25	SHOOT OUT ON/OFF	0000		0 ~ 2	1: Previous type 2: Switching by AV signal
26	RGB INPUT STILL/MOTION	0000		00 - 01	0: Still
27	Fan operation time in standby	0001		00 - FF	1: 1 minute FF: 255 minutes
28	CLAMP ADJ. in AV MODE	0006		00 - FF	
29	LOGO OPTION	0001		00 - 01	0: OFF 01: ON
2A	GAMMA GAM R_WHP	0037		00 - 3F	
2B	GAMMA GAM G_WHP	0037		00 - 3F	
2C	GAMMA GAM B_WHP	0037		00 - 3F	
2D	GDC DALLAS ON/OFF Switch	0001		00 - 01	1: ON 0: OFF
2E	GDC Auto Fine Sync Initial Value	0000		00 ~ FF	
2F	GDC Edge Detection Level	0010		00 ~ FF	
30	GDC Video Slice High Level	0033		00 ~ FF	
31	GDC Video Slice Low Level	0031		00 ~ FF	

Data No. Screen Display	Adjustment Item Contents	Initial Value		Range	Description
		CG	AV		
32	GDC Clamp Level	0000		00 ~ FF	
33	GDC Phase Plus Compensation	0000		0 ~ 7	
34	GDC Phase Minus Compensation	0000		0 ~ 7	
35	GDC Acq. Phase	0001		0 ~ 3	
36	GDC XGA Total Dots Initial Value	04E6		0 ~ 7FF	
37	GDC Total Dots Default Value 0 (VGA640)	0316		0 ~ 7FF	
38	GDC Total Dots Default Value 1 (SVGA800)	03DE		0 ~ 7FF	
39	GDC Total Dots Default Value 2 (XGA1024)	04E0		0 ~ 7FF	
3A	GDC Total Dots Default Value 3 (MAC1152)	05AA		0 ~ 7FF	
3B	GDC Total Dots Default Value 4 (VGA720)	037A		0 ~ 7FF	
3C	GDC Total Dots Default Value 5 (MAC832)	0408		0 ~ 7FF	
3D	NOT USED	063B			
3E	GDC Total Dots Default Value 7 (SXGA1280)	0678		0 ~ 7FF	
3F	GDC VG Switch	0000			
40	AV Normal Total-Dots	0410		0 ~ 270F	
41	AV Normal Clamp	0008			
42	AV Normal H Back-Porch	003C		0 ~ 270F	
43	AV Normal V Back-Porch	000D		->	Maximum work_total_line - 4
44	AV Normal Disp-Line	0109			Operate in 5 steps
45	AV Normal H Blanking Start	005C		0 ~ 3FF	
46	AV Normal H Blanking End	01F2		0 ~ 3FF	
47	AV Normal V Blanking Start	0007		0 ~ 3FF	
48	AV Normal V Blanking End	0265		0 ~ 3FF	
49	AV Wide Total-Dots	0404		0 ~ 270F	
4A	AV Wide Clamp	0008			
4B	AV Wide H Back-Porch	0034		0 ~ 270F	
4C	AV Wide V Back-Porch	0050		->	
4D	AV Wide Disp-Line	00C4			Operate in 5 steps
4E	AV Wide H Blanking Start	005C		0 ~ 3FF	
4F	AV Wide H Blanking End	01F2		0 ~ 3FF	
50	AV Wide V Blanking Start	005C		0 ~ 3FF	
51	AV Wide V Blanking End	0225		0 ~ 3FF	
52	NOT USED	0000			
53	Auto Total Dot Blanking ON/OFF	0001		0 - 1	
54	Gate Array Gamma ON/OFF	0000		0 - 1	
55	Gate Array Enhancer ON/OFF	0001		0 - 1	
56	Gamma Point A co-ordinates	0000		0 - 3F	
57	Gamma Point B co-ordinates	0000		0 - 3F	
58	Contrast Ref. Level	0000		00 - FF	
59	Contrast Effect	0000		0 - 1F	
5A	Contrast Pola	0000		0 - 1	
5B	Brightness Level	0000		00 - FF	
5C	Brightness Pola	0000		0 - 1	
5D	Sharpness Effect	0003	001A	0 - 1F	
5E	NOT USED	0000			
5F	H-Filter Lock up Table	0001		00 -FF	
60	V-Filter Lock up Table	0001		00 -FF	
61	HDTV Total-Dots	05BC		0 ~ 270F	
62	HDTV Clamp	0000			
63	HDTV H Back-Porch	0083		0 ~ 270F	
64	HDTV V Back-Porch	000D		->	Maximum work_total_line - 4
65	HDTV Disp-Line	0109			Operate in 5 steps
66	HDTV H Blanking Start	005C		0 ~ 3FF	
67	HDTV H Blanking End	01F2		0 ~ 3FF	
68	HDTV V Blanking Start	0007		0 ~ 3FF	
69	HDTV V Blanking End	0265		0 ~ 3FF	

Electrical Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

- Input signal
  - Video signal -------------- 1.0Vp-p/75Ω terminated, 16 steps gray scale pattern
  - Computer signal -------- 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Picture control mode ---------- "NORMAL" mode unless otherwise noted.

OUTPUT VOLTAGE ADJUSTMENT

After replacing the Assy, Power or Assy PWB HIC-A, readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of K6B
2. Adjust the voltage by using VR01 as following.

AC Input	Reading
230V	370V ±2V
120V	320V ±2V

Caution:
Be sure to connect the lamp when taking this adjustment.

+15V ADJUSTMENT

1. Receive the 16-step gray scale video signal.
2. Set to AV mode.
3. Connect a digital voltmeter to pin 5 (+) of K6H and chassis ground (-).
4. Adjust voltage to 15.2 ±0.1V by using VR661.

+15.5V ADJUSTMENT

1. Receive the 16-step gray scale video signal.
2. Set to AV mode.
3. Connect a digital voltmeter to pin 5 (+) of K16GG and chassis ground (-).
4. Adjust voltage to 15.5 ±0.1V by using VR663.

DC ADJUSTMENT

Presetting

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.

[R-DC ADJUSTMENT]

3. Connect a digital voltmeter to test point "TP511" (+) and chassis ground (-).
4. Adjust voltage to 7.5 ±0.1Vdc by using VR501.

[G-DC ADJUSTMENT]

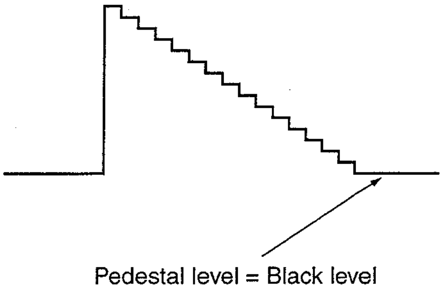
5. Connect a digital voltmeter to test point "TP512" (+) and chassis ground (-).
6. Adjust voltage to 7.5 ±0.1Vdc by using VR531.

[B--DC ADJUSTMENT]

7. Connect a digital voltmeter to test point "TP513" (+) and chassis ground (-).
8. Adjust voltage to 7.5 ±0.1Vdc by using VR561.

PEDESTAL LEVEL ADJUSTMENT

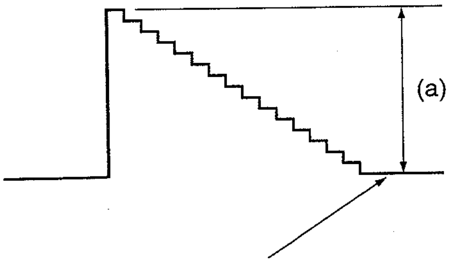
1. Receive the NTSC 16-step grey scale video signal.
2. Set to AV mode.
3. Connect an oscilloscope to test point "TP402" (+) and chassis ground (-).
4. By using "1B" data, (Refer to "IIC data adjustment ") adjust pedestal level and black level to the same level.



VIDEO GAIN ADJUSTMENT

[CG VIDEO GAIN ADJUSTMENT]

1. Receive the 16-step grey scale computer signal.
2. Set to COMPUTER mode.
3. Connect an oscilloscope to test point "TP402" (+) and chassis ground (-).
4. Adjust "a" to be 1.15 ±0.05Vp-p by using VR491.



Pedestal level = Black level

After completing this adjustment, should be done the AV VIDEO GAIN ADJUSTMENT.

[AV VIDEO GAIN ADJUSTMENT]

Presetting

1. Receive the 16-step grey scale video signal.
2. Set to AV mode.

[R-VIDEO GAIN ADJUSTMENT]

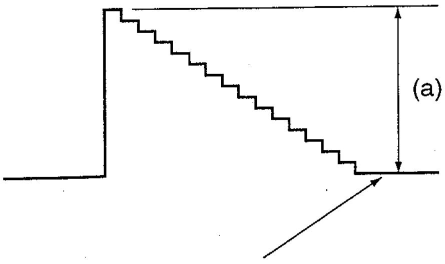
3. Connect an oscilloscope to test point "TP401" (+) and chassis ground (-).
4. By using "1C" data, (Refer to "IIC data adjustment ") adjust "a" to be 1.15 ±0.05Vp-p.

[G-VIDEO GAIN ADJUSTMENT]

5. Connect an oscilloscope to test point "TP402" (+) and chassis ground (-).
6. By using "1D" data, (Refer to "IIC data adjustment ") adjust "a" to be 1.15 ±0.05Vp-p.

[B-VIDEO GAIN ADJUSTMENT]

7. Connect an oscilloscope to test point "TP403" (+) and chassis ground (-).
8. By using "1E" data, (Refer to "IIC data adjustment ") adjust "a" to be 1.15 ±0.05Vp-p.

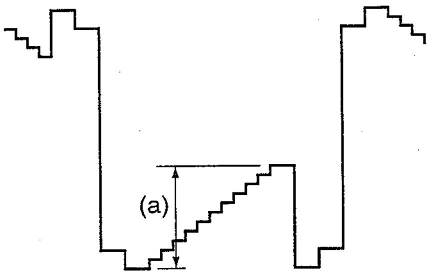


Pedestal level = Black level

GAMMA OFF VIDEO ADJUSTMENT (CG)

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.
3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
4. Select Data no. "00" and change data value (Refer to "IIC data adjustment ") to adjust "a" to be 1.50Vp-p.

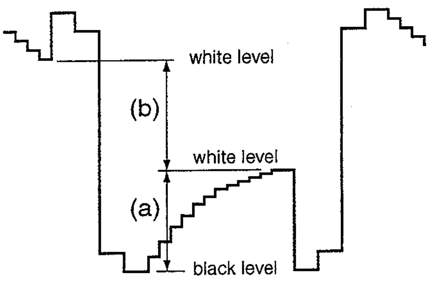
This adjustment should be done before adjusting the CG VIDEO ADJUSTMENT and AV VIDEO ADJUSTMENT.



AV VIDEO ADJUSTMENT

1. Receive the 16-step grey scale video signal.
2. Set to AV mode.
3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
4. Select Data no. "0F" and change data value (Refer to "IIC data adjustment ") to adjust "b" to be 1.0Vp-p.
5. Select Data no. "0D" and change data value (Refer to "IIC data adjustment ") to adjust "a" to be 4.30Vp-p, and then decrese 6 steps from its value.
6. Select Data no. "0F" and change data value (Refer to "IIC data adjustment ") to adjust "b" to be 2.70Vp-p.

This adjustment should be done after adjusting the GAMMA OFF VIDEO ADJUSTMENT(CG).



CG VIDEO ADJUSTMENT

Presetting

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.

[G-VIDEO ADJUSTMENT-1]

3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
4. Select Data no. "0F" and change data value (Refer to "IIC data adjustment ") to adjust "b" to be 1.0Vp-p.
5. Select Data no. "0D" and change data value (Refer to "IIC data adjustment ") to adjust "a" to be 4.1Vp-p.

[R-VIDEO ADJUSTMENT-1]

6. Connect an oscilloscope to test point "TP511" (+) and chassis ground (-).
7. Select Data no. "05" and change data value (Refer to "IIC data adjustment ") to adjust "a" to be 4.1Vp-p.

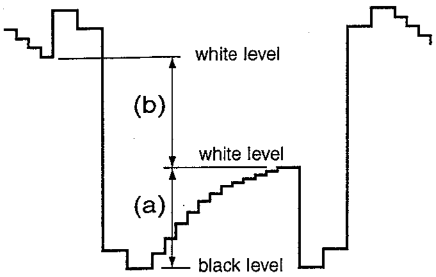
[B-VIDEO ADJUSTMENT-1]

8. Connect an oscilloscope to test point "TP513" (+) and chassis ground (-).
9. Select Data no. "07" and change data value (Refer to "IIC data adjustment ") to adjust "a" to be 4.1Vp-p.

[G-VIDEO ADJUSTMENT-2]

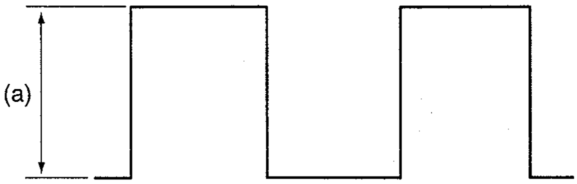
10. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
11. Select Data no. "0F" and change data value (Refer to "IIC data adjustment ") to adjust "b" to be 2.60Vp-p.

This adjustment should be done after adjusting the GAMMA OFF VIDEO ADJUSTMENT(CG).



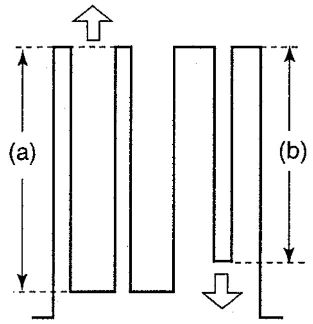
NRS ADJUSTMENT

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.
3. Connect an oscilloscope to test point "TP2571" (+) and chassis ground (-).
4. Adjust "a" to be 4.5 ±0.1Vp-p by using VR1451.



SAMPLE&HOLD CLOCK ADJUSTMENT

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.
3. Connect an oscilloscope to test point "TP512" (+) and chassis ground (-).
4. Select Data no. "03" and change data value (Refer to "IIC data adjustment ") to adjust amplitude of waveform "a" and "b" to be maximum.



COMMON CENTER ADJUSTMENT

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.

[RED COMMON CENTER ADJUSTMENT]

3. Cover the G and B panel to cut the light transit.
4. Adjust VR2502 to minimum flicker on picture.

[GREEN COMMON CENTER ADJUSTMENT]

3. Cover the R and B panel to cut the light transit.
4. Adjust VR2503 to minimum flicker on picture.

[BLUE COMMON CENTER ADJUSTMENT]

3. Cover the G and R panel to cut the light transit.
4. Adjust VR2504 to minimum flicker on picture.

WHITE BALANCE ADJUSTMENT

[CG WHITE BALANCE]

1. Receive the 16-step gray scale computer signal.
2. Set to COMPUTER mode.
3. Select Data no. "10" (Red) and "11" (Blue), and change data values (Refer to "IIC data adjustment ") respectively to make a proper white balance.

Confirm the withe balance in AV and COMPUTER mode.

[AV WHITE BALANCE]

1. Receive the 16-step gray scale video signal.
2. Set to AV mode.
3. Select Data no. "10" (Red) and "11" (Blue), and change data values (Refer to "IIC data adjustment ") respectively to make a proper white balance.

Confirm the withe balance in AV and COMPUTER mode.

If the white balance in dark part differs between AV and COMPUTER mode, please take next adjustment to make a proper white balance.

Note:
The service adjustment items "10" and "11" can be set the white balance data to each AV and COMPUTER mode, therefore, it should be required to adjust both of the modes.

■ Optical Adjustment

Focus Adjustment

When you replace all of LCD panels such as disassembly cleaning, etc., first adjust the G-LCD panel as the standard reference, after that, adjust the R-LCD panel and B-LCD panel focus adjustments.
When you replaced one of LCD panels, adjust only the replaced LCD panel focus to put the un-replaced LCD panels focus.

[Before adjustment]
- Input a grid pattern signal.
- Adjustment requires a 2.0mm hex driver and a slot screwdriver. Remove cabinet cover following to "Mechanical Disassemblies".

[G-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (TELE) button to the "Tele" position (to reduce image size) and press the FOCUS (FAR) or (NEAR) button to the center of screen is in sharp fucus.
3. Press the ZOOM (WIDE) button to "Wide" position (to increase image size).
4. Loosen the 4 screws "A" with the 2.0mm hex driver (Fig.1a).
5. Insert the slot type screwdriver in the slots ①, ② and ③/④ (Fig.1a) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1a and Fig.2.
6. Press the ZOOM (TELE) button to the "Tele" position (to reduce image size) and check to see if sharp focus is retrained. If in sharp focus, adjustment is completed. If not, repeat steps 2 to 6.
7. Tighten the 4 screws "A" and securely attache the Green panel unit.

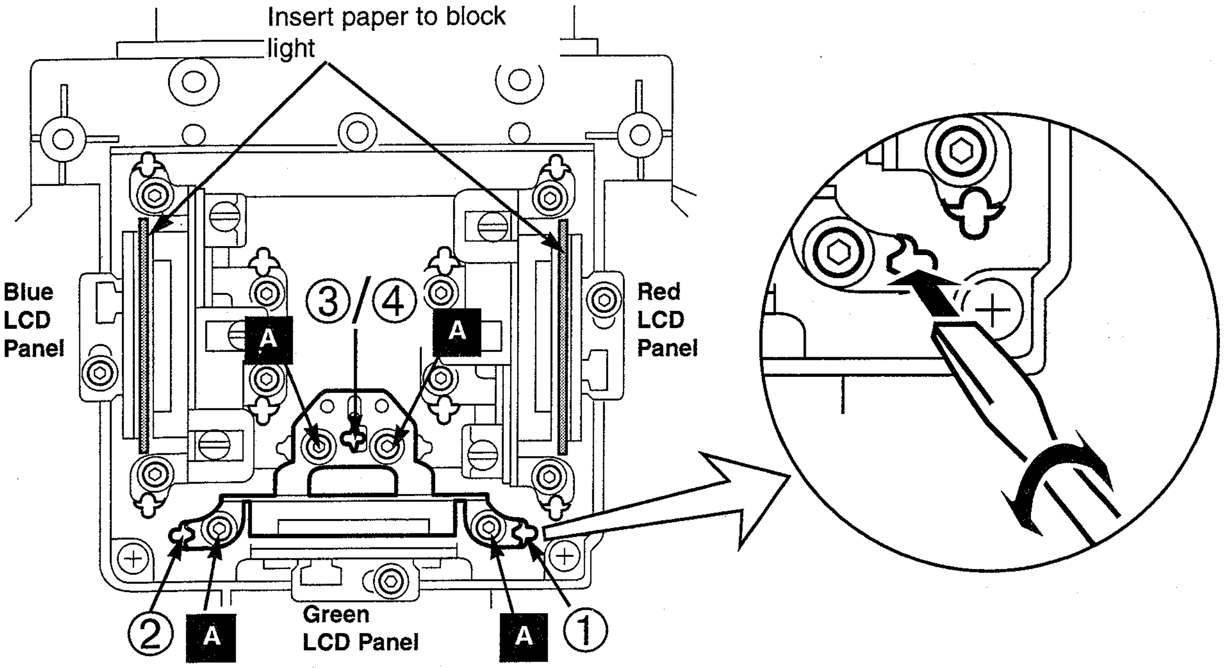


Fig.1a

[R-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (WIDE) button to "Wide" position (to increase image size) and press the FOCUS (FAR) or (NEAR) button to make a picture in sharp focus.
3. Insert paper etc. in Blue and Green panel to block the blue and green light so that only red light is projected.
4. Loosen the 4 screws "B" with the 2.0mm hex driver, see Fig.1b.
5. Insert the slot type screwdriver in the slots ①, ②,③ and ④ (Fig.1b) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1b and Fig.2.
6. Tighten the 4 screws "B" and securely attache the Blue panel unit.

[B-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (WIDE) button to "Wide" position (to increase image size) and press the FOCUS (FAR) or (NEAR) button to make a picture in sharp focus.
3. Insert paper etc. in Red and Green panel to block the red and green light so that only blue light is projected.
4. Loosen the 4 screws "C" with the 2.0mm hex driver, see Fig.1c.
5. Insert the slot type screwdriver in the slots ①, ②,③ and ④ (Fig.1c) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1c and Fig.2.
6. Tighten the 4 screws "C" and securely attache the Blue panel unit.

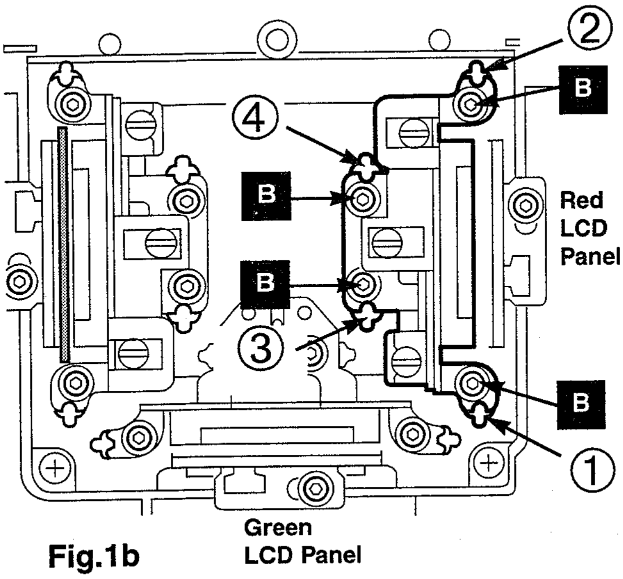


Fig.1b

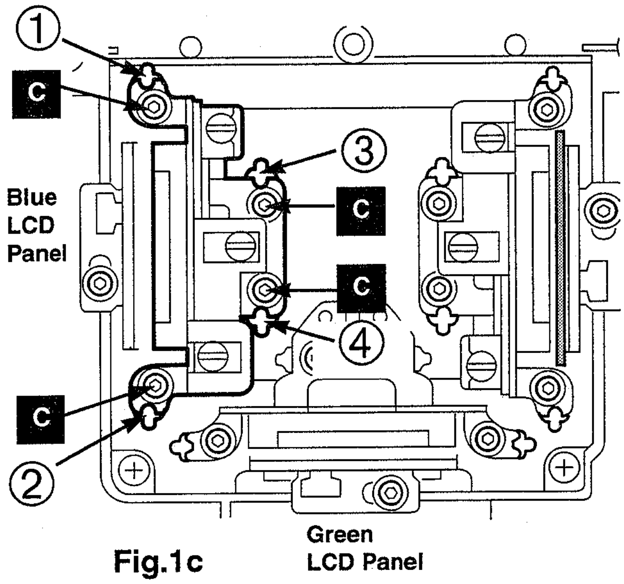


Fig.1c

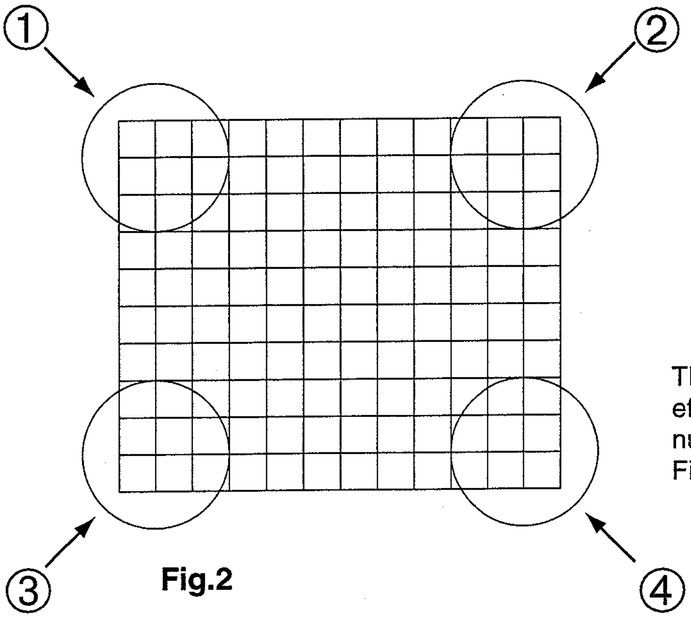


Fig.2

The numbers indicate the focus effective part when moving the numbered adjusting slots on Fig.1.

Convergence Adjustment

For convergence adjustment, use Green as the reference standard. Align Red and Blue with Green by adjusting the position and angle of the Red and Blue LCD panels. Screws “A”, “B”, “C” (Fig.4, 7) are for convergence adjustment.

[Before adjustment]

- Make sure each Red, Green and Blue LCD panel unit has been correctly installed, and that all focus adjustments have been completed before performing convergence adjustments.
- Input a grid pattern signal.
- Adjustment requires a 5.5mm spanner wrench and a slot screwdriver. Remove cabinet cover following to “Mechanical Disassemblies”.

[RED/BLUE PANEL CONVERGENCE]

1. Insert paper etc. in Red or Blue panel to block the red or blue light so that either green and red or green and blue lights are projected. (For example, when adjust Red panel convergence, project green and red lights, and when adjust Blue panel, project green and blue lights.)
2. Loosen 2 screws “D” (Fig.4) using the 5.5mm spanner wrench.
3. Turning the screw “A”, align so that the Red (or Blue) horizontal lines are parallel to the Green horizontal lines (Fig.5).
4. Turning screw “B”, align the Red (or Blue) vertical lines onto the Green vertical lines (Fig.6).
5. Turning screw “C”, align the Red (or Blue) horizontal lines onto the Green horizontal lines(Fig.6).
6. By repeating steps 3 to 5, align the Red (or Blue) grid lines onto the green lines.
7. Tighten the 2 screws “D” to fix the Red (or Blue) panel unit.

[Image Movement and Screw Turning]

1. Adjustment screw “A” turns the image (Fig.5).
2. Adjustment screw “B” moves the image right and left (Fig.6).
3. Adjustment screw ”C” moves the image up and down (Fig.6).

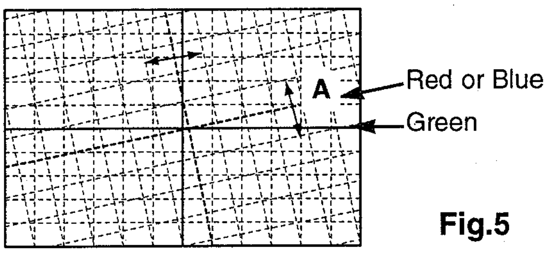


Fig.5

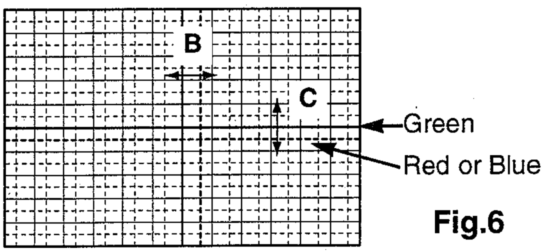


Fig.6

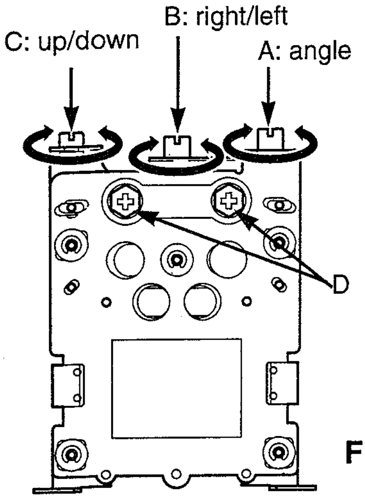


Fig.4

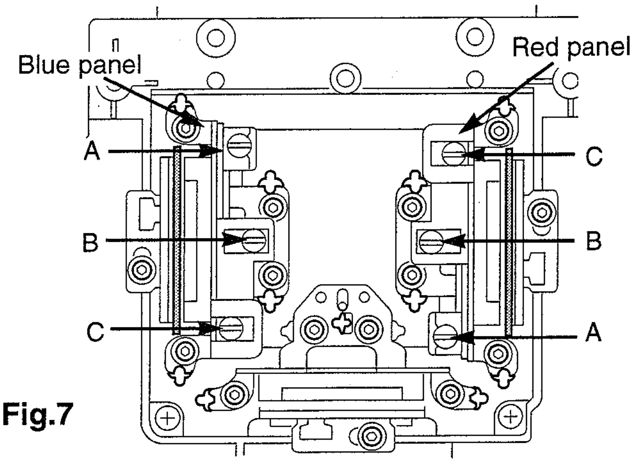


Fig.7

Integrator Lens Adjustment

[Before Adjustment]

- Adjustment requires a 2.5mm hex driver and a slot screwdriver.
- Remove cabinet top, cabinet front and Main Unit following to "Cabinet Disassemblies".
- Disconnect the connectors K8Q, K8P, K8R and FPC cable of LCD panels on the main unit.
- Remove temperature sensor (SW904) on the optical base.

Note: Do not disconnect connector "K8H" (Temperature sensor) on the main unit otherwise the projector can not be turned on.

[ADJUSTMENT]

1. Turn on lamp by a state of without FPC cable of LCD panels.
2. Set the size of a screen in about 40 inches.
3. Insert paper etc. in Red and Blue panel to block the red and blue light so that green light is projected and make a fine focus.
4. Insert paper etc. in Blue panel to block the blue light so that red and green lights are projected.
5. Loosen 3 screws "B" with the 2.0mm hex driver(Fig.9)
6. Adjust the adjustment base of integrator lens assy to make color uniformity in yellow.
    1) If the un-uniform color appears on the left or right of the screen as shown in Fig.8-1, adjust a slot "A" to make color uniformity in yellow by using a slot screwdriver.
    2) If the un-uniform color appears on the top or bottom of the screen as shown in Fig.8-2, adjust the 2 screws "C" to make color uniformity in yellow.
7. Tighten the 3 screws "B" to fix the integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.

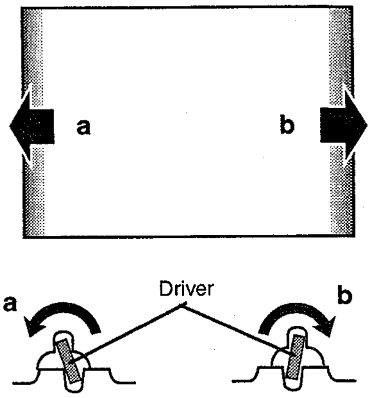


Fig.8-1
Moving of slot A

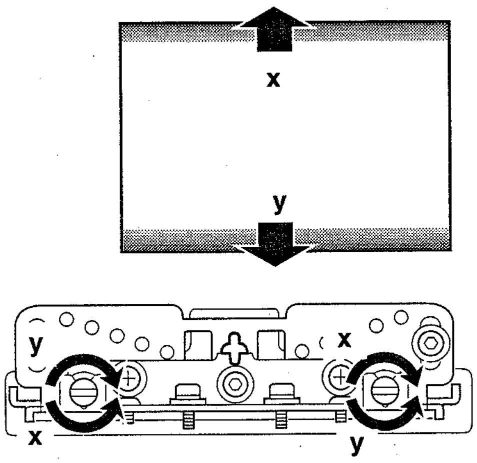
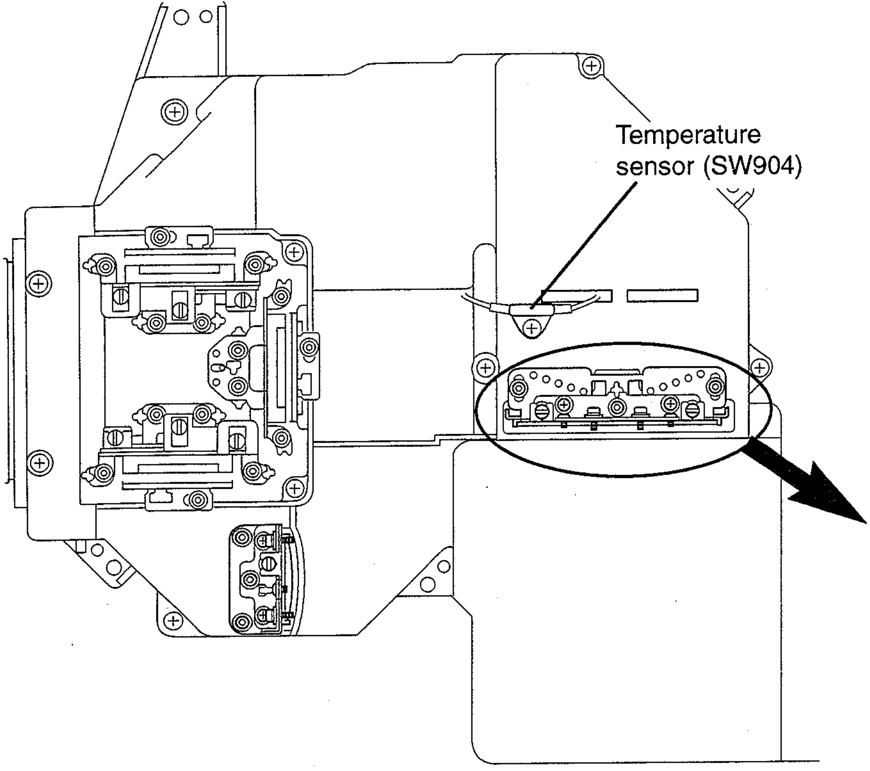


Fig.8-2
Moving of screws C



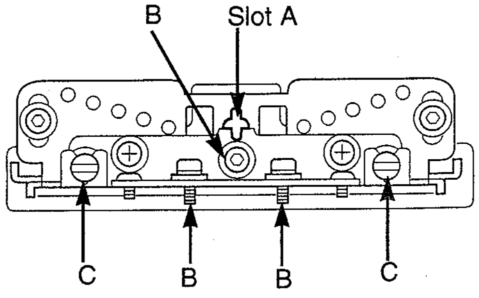


Fig.9

Relay Lens Adjustment

[Before Adjustment]

- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top, cabinet front and Main Unit following to “Cabinet Disassemblies”.
- Disconnect the connectors K8Q, K8P, K8R and FPC cable of LCD panels on the main unit.
- Remove temperature sensor (SW904) on the optical base.

Note: Do not disconnect connector “K8H” (Temperature sensor) on the main unit otherwise the projector can not be turned on.

[ADJUSTMENT]

1. Turn on lamp by a state of without FPC cable of LCD panels.
2. Set the size of a screen in about 40 inches.
3. Adjust the adjustment base of relay lens assy to make color uniformity in white.
   1) If the un-uniform color appears on the left or right of the screen as shown in Fig.10-1, loosen a screw “C” with the 2.5mm hex driver(Fig.11) and adjust the slot “D” to make color uniformity in white by using a slot screwdriver.
   2) If the un-uniform color appears on the top or bottom of the screen as shown in Fig.10-2, loosen 2 screws “A” with the 2.5mm hex driver(Fig.11) and adjust the screw “B” to make color uniformity in white.
4. Tighten the 2 screws “A” and screw “C” to fix the relay lens unit.

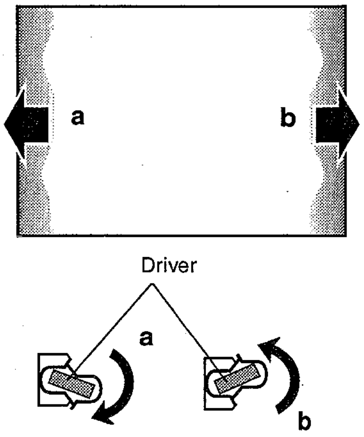


Fig.10-1

Moving of slot D

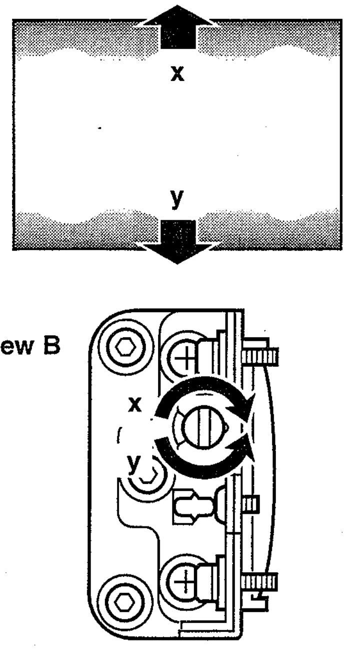


Fig.10-2

Moving of screw B

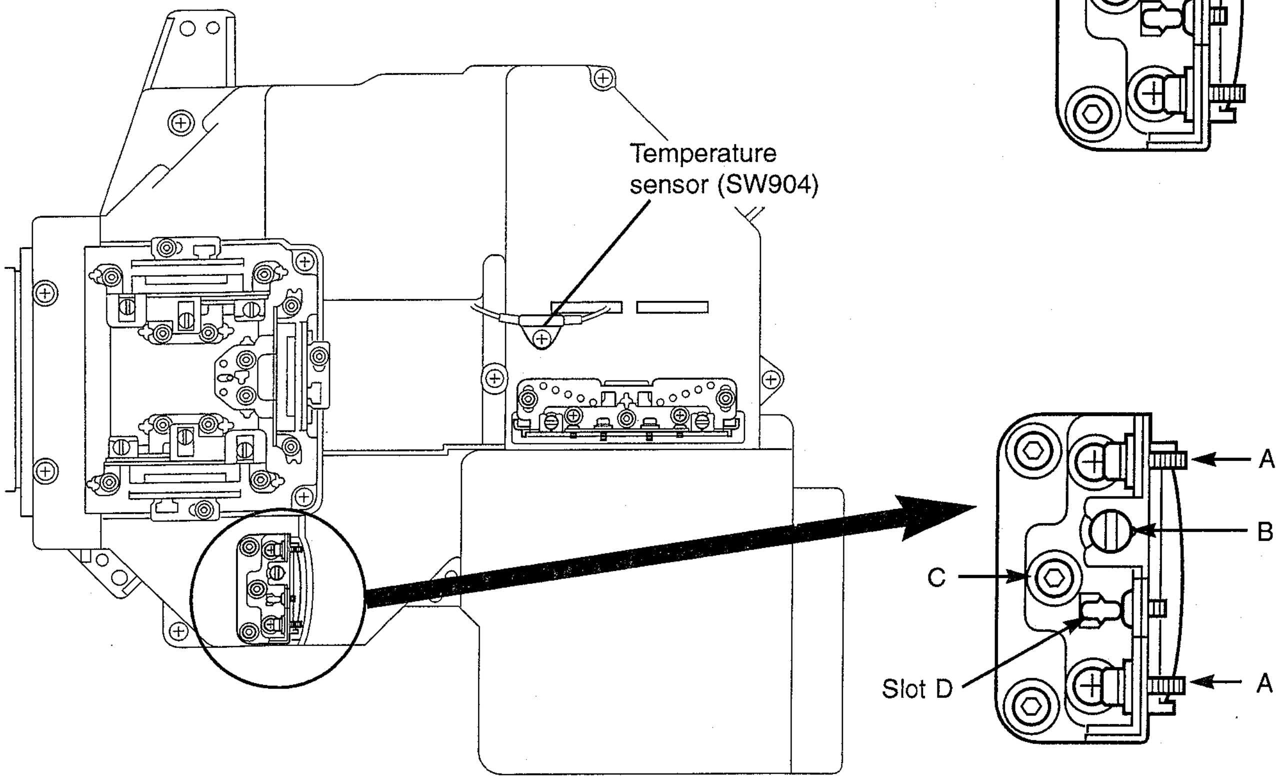


Fig.11

Polarized Glass Adjustment

[Before Adjustment]

- Adjustment requires a 2.0mm hex driver.
- Remove cabinet cover following to step1 of "Mechanical Disassemblies".
- Input a 100% of black raster signal.

[R/G/B POLARIZED GLASS ADJUSTMENT]

1. Loosen a screw "A" (Fig.12/13) on the polarized glass mounting base which you intend to adjust.
2. Turn the polarized glass mounting base as shown in Fig.13 to make color uniformity in black.
3. Tighten the screw "A" to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

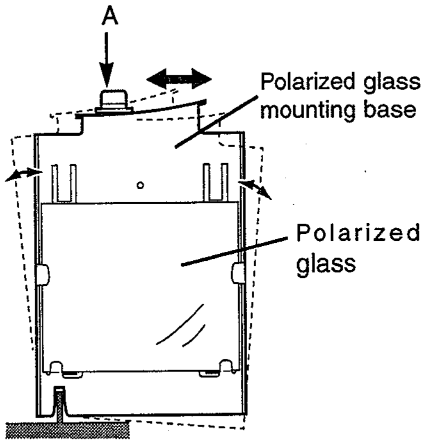

A
Polarized glass mounting base
Polarized glass

Fig.13

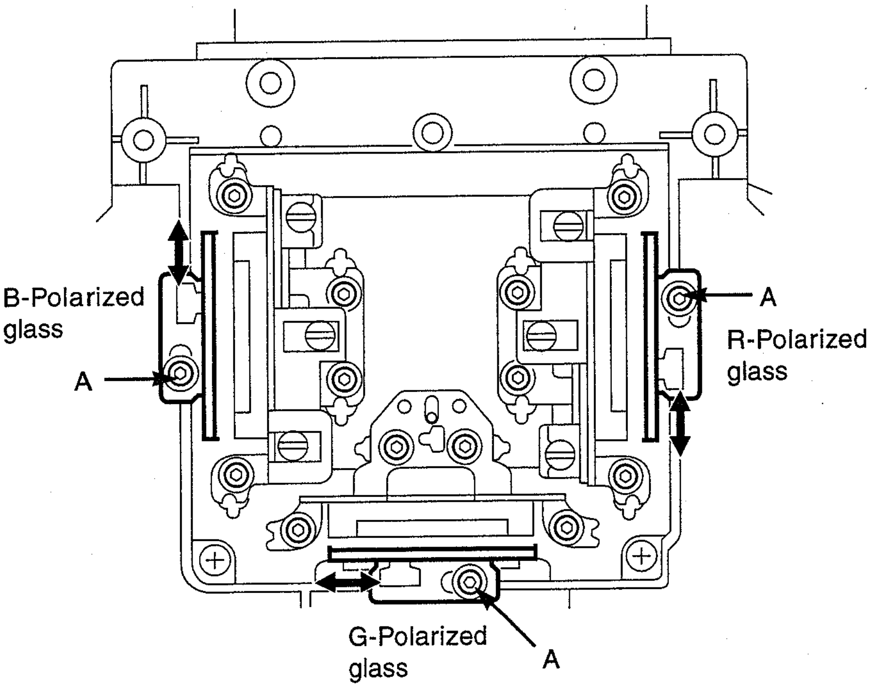

B-Polarized glass
A
A
R-Polarized glass
G-Polarized glass
A

Fig.12

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet cover following to step 1 of "Mechanical Disassemblies".
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main unit following to step 2 to 3 of "Mechanical Disassemblies".
2. Remove integrator lens unit and relay lens unit, and then the optical base top following step 2 of "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ CPU (IC801) Port Functions

Pin No.	Function Name	Function	IN/OUT
1	VCO-ST	VCO Strobe	OUT
2	AIDATA	DATA Input for Auto Image IC	IN
3	DL_SP	Delay Line Control Serial/Parallel switch	OUT
4	DAC-ST	Strobe (Panel Driver Control) for DAC IC	OUT
5	AI-ST	Strobe for Auto Image IC	OUT
6	VSS GND		
7	ADDR_0	Address bus0	OUT
8	ADDR_1	Address bus1	OUT
9	ADDR_2	Address bus2	OUT
10	ADDR_3	Address bus3	OUT
11	ADDR_4	Address bus4	OUT
12	VCC 5V		
13	ADDR_5	Address bus5	OUT
14	VSS GND		
15	ADDR_6	Address bus6	OUT
16	ADDR_7	Address bus7	OUT
17	ADDR_8	Address bus8	OUT
18	ADDR_9	Address bus9	OUT
19	ADDR_10	Address bus10	OUT
20	ADDR_11	Address bus11	OUT
21	ADDR_12	Address bus12	OUT
22	ADDR_13	Address bus13	OUT
23	ADDR_14	Address bus14	OUT
24	ADDR_15	Address bus15	OUT
25	ADDR_16	Address bus16	OUT
26	VCC 5V		
27	ADDR_17	Address bus17	OUT
28	VSS GND		
29	LAMP_SW	Lamp Switch	OUT
30	AI_SW VCO	Control Switch	OUT
31	RAS	RAS Signal for DRAM Access	OUT
32	CASL	CAS Signal (Lower 16bits) for SRAM Access	OUT
33	DL_ST	Strobe for Delay Line	OUT
34	BF-V	V-Sync of Input Signal (Not used)	IN
35	VSS GND		
36	AFT-V	V-Sync for Panel Drive	IN
37	ADDR_18	Address bus18	OUT
38	ADDR_19	Address bus19	OUT
39	ADDR_20	Address bus20(For 2MB Flash Memory)	OUT
40	VCC 5V		
41	SCAN_V	V-Sync for SCAN (Not used)	IN
42	VSS GND		
43	RD	READ Signal	OUT
44	WDT	Watch Dog	
45	DB_31	Data bus31	IN/OUT
46	DB_30	Data bus30	IN/OUT
47	SYSTEM	System ON/OFF	OUT
48	WRL	WRITE Signal (Lower 16 bits)	OUT
49	CS1	Chip Select for Gate Array IC	OUT
50	CS0	Chip Select for Flash Memory	OUT

CPU Port Functions

Pin No.	Function Name	Function	IN/OUT
51	IICCLK	CLK for IIC bus	OUT
52	IICDATA	SDA for IIC bus	OUT
53	CS3	Chip Select for Ext. SRAM	OUT
54	CS2	Chip Select for Gate Array IC 2	OUT
55	VSS GND		
56	DB_29	Data bus29	IN/OUT
57	DB_28	Data bus28	IN/OUT
58	DB_27	Data bus27	IN/OUT
59	DB_26	Data bus26	IN/OUT
60	DB_25	Data bus25	IN/OUT
61	VSS GND		
62	DB_24	Data bus24	IN/OUT
63	VCC 3.3V		
64	DB_23	Data bus23	IN/OUT
65	DB_22	Data bus22	IN/OUT
66	DB_21	Data bus21	IN/OUT
67	DB_20	Data bus20	IN/OUT
68	DB_19	Data bus19	IN/OUT
69	DB_18	Data bus18	IN/OUT
70	DB_17	Data bus17	IN/OUT
71	VSS GND		
72	DB_16	Data bus16	IN/OUT
73	DB_15	Data bus15	IN/OUT
74	DB_14	Data bus14	IN/OUT
75	DB_13	Data bus13	IN/OUT
76	DB_12	Data bus12	IN/OUT
77	VCC 3.3V		
78	DB_11	Data bus11	IN/OUT
79	VSS GND		
80	DB_10	Data bus10	IN/OUT
81	DB_9	Data bus9	IN/OUT
82	DB_8	Data bus8	IN/OUT
83	DB_7	Data bus7	IN/OUT
84	DB_6	Data bus6	IN/OUT
85	VCC 3.3V		
86	DB_5	Data bus5	IN/OUT
87	VSS GND		
88	DB_4	Data bus4	IN/OUT
89	DB_3	Data bus3	IN/OUT
90	DB_2	Data bus2	IN/OUT
91	DB_1	Data bus1	IN/OUT
92	DB_0	Data bus0	IN/OUT
93	VSS GND		IN/OUT
94	XTAL	X'tal Oscillator Input	IN
95	MODE3	Multiplier Setting with Mode 2	IN
96	EXTAL	X'tal Oscillator Output	OUT
97	MODE2	Multiplier Setting with Mode 3	IN
98	NONMASK	Non-Maskarable Input	IN
99	FWP	Flash Memory Write Mode	IN
100	FLASH_MODE	FWP Control	OUT

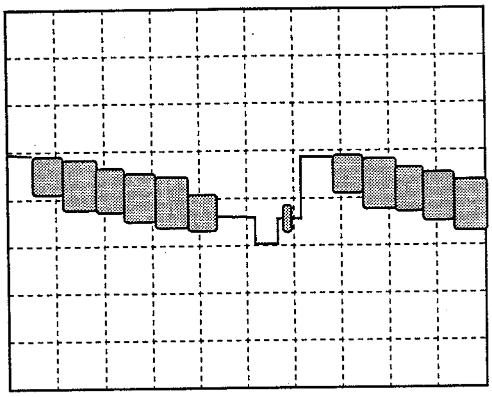
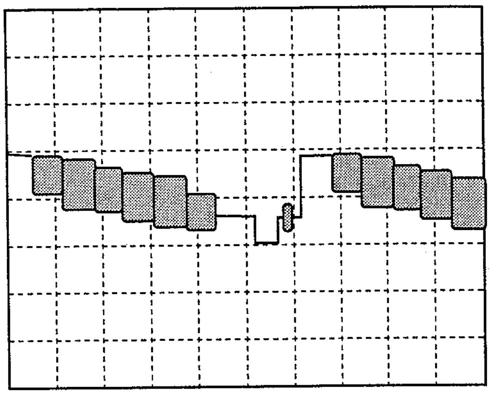
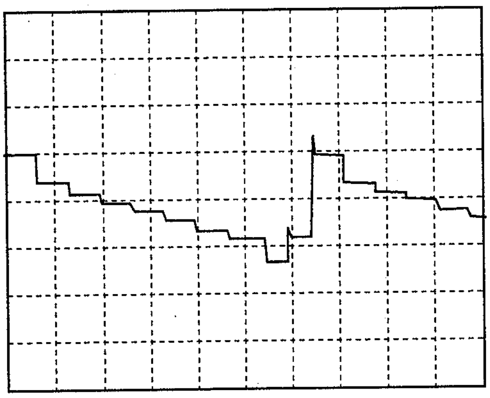
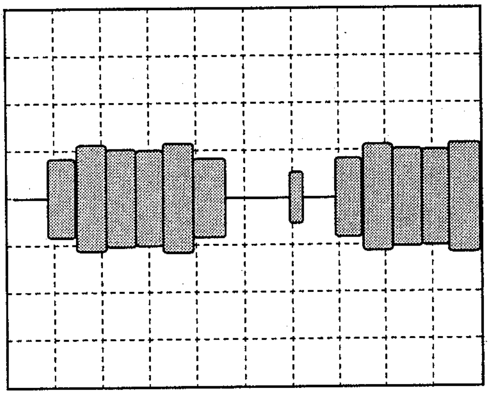
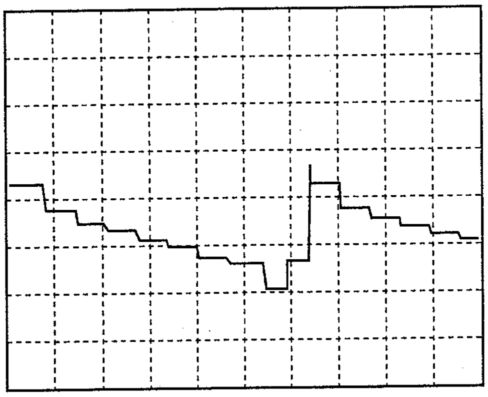
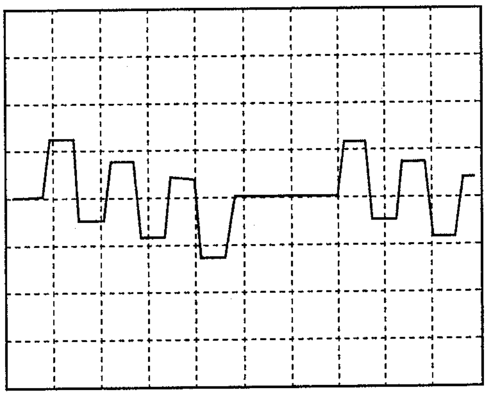
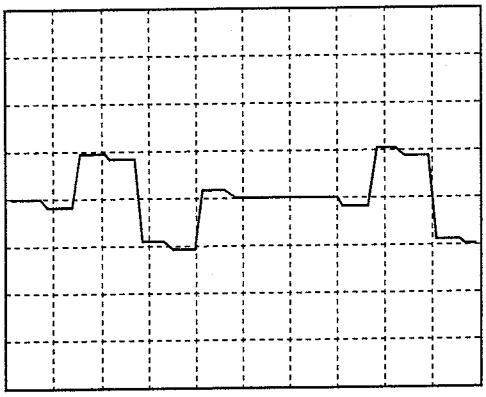
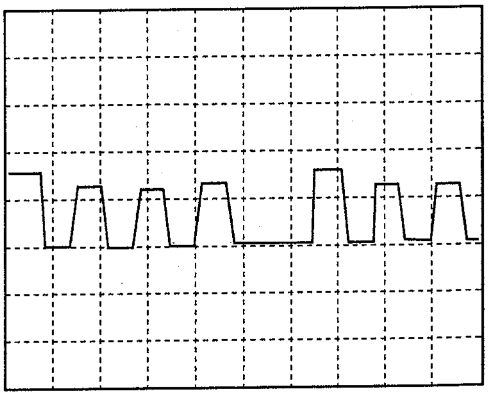
CPU Port Functions

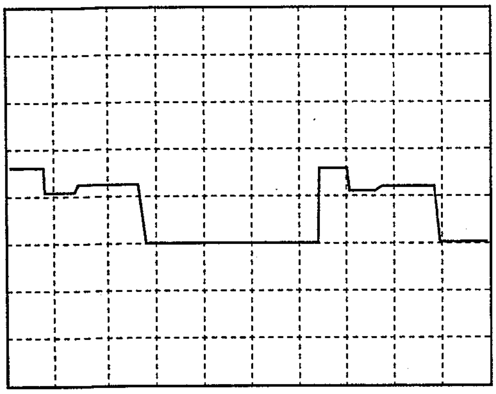
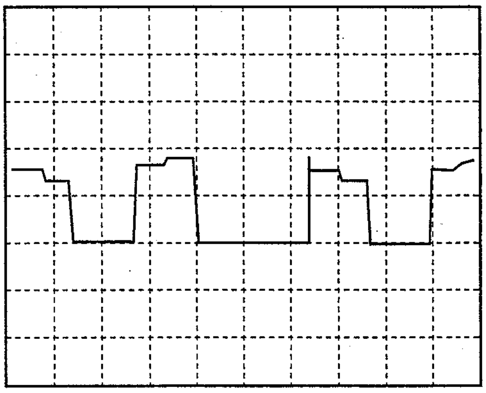
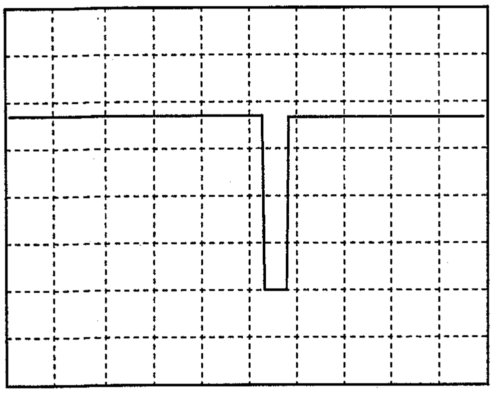
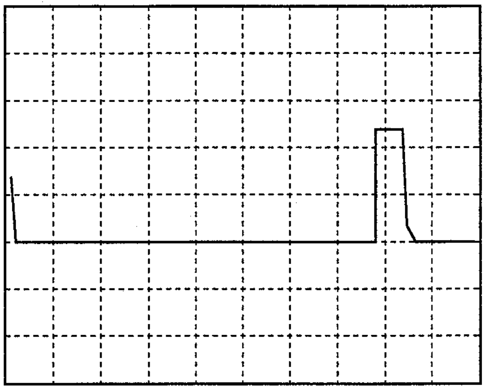
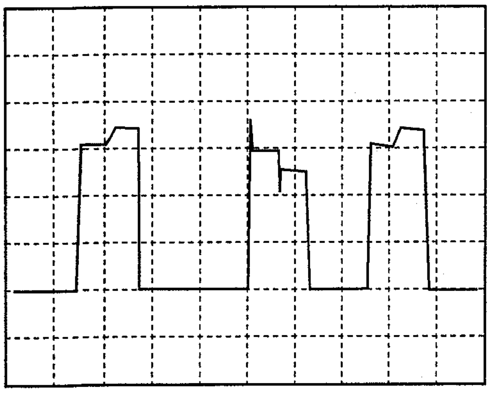
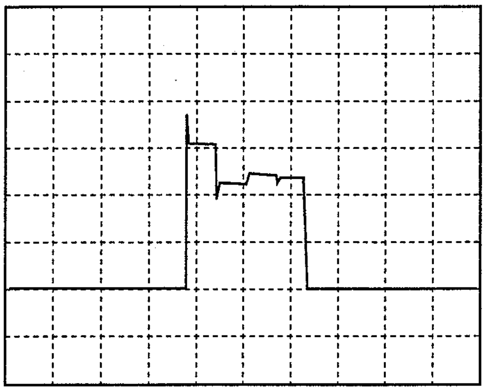
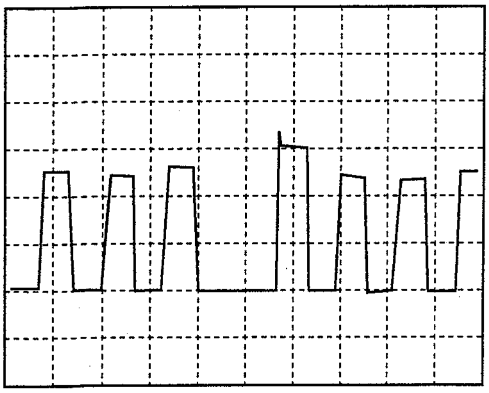
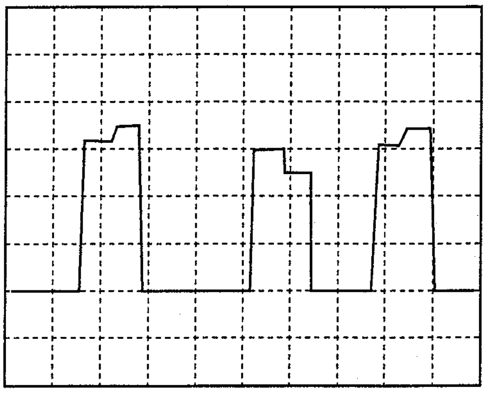
Pin No.	Function Name	Function	IN/OUT
101	POWER_RESET	Power On Reset for Gate Array IC	IN
102	MODE1	MCUMode Setting with Mode 2	IN
103	MODE2	MCUMode Setting with Mode 1	IN
104	PLL Power Supply		
105	PLLCAP	PLLFilter	
106	PLLGND	PLLGND	
107	CK	NC	IN
108	RESET	RESET	
109	PD_0	AI Division Switch, Parallel data0	IN/OUT
110	EXP-RST/PD_1	Expand I/O Reset, Parallel data1	IN/OUT
111	EXP-ST/PD_2	Expand I/O strobe, Parallel data2	IN/OUT
112	VCC 3.3V		
113	EXP-CLK/PD_3	Expand I/O Clock, Parallel data3	IN/OUT
114	EXP-OUT/PD_4	Expand I/O Data Output, Parallel data4	IN/OUT
115	PD_5	Flash Memory Write Parallel data5	IN
116	PD_6	Panel Option	IN
117	VSS GND		
118	KEY1	Key Input(A/D)	IN
119	KEY2	Key Input(A/D)	IN
120	KEY3	GA Reset Key	IN
121	OPT1	Option for Logo mark	IN
122	OPT2	Option others	IN
123	LAMP-DET	Lamp Detection	IN
124	AVSS GND	A/D GND	
125	POWER_FAIL	Power Failure Detection	IN
126	RPOSI-DET	Lens Position Detection (Not used)	IN
127	5V	A/D Reference Voltage	
128	5V	A/D Power Source	
129	VSS GND		
130	TEMP_DET	Temperature Detection	IN
131	NC		OUT
132	KCPU	DMAC Start Signal for DRAM Write	IN
133	PC-RX	RS232C Receive(PC Communication)	IN
134	PC-TX	RS232C Transmit(PC Communication)	OUT
135	VCC 3.3V		
136	S/H-ST	Strobe for S/H Gate Array	OUT
137	PD_7	BGA Power ON/OFF	IN
138	EXP-IN	Expand I/O Data Input	IN
139	SDATA/BUSY	Serial data for Gate Array, Flash I/F	OUT
140	SCLK/ACK	Clock for Fate Array, Flash I/F	OUT
141	VSS GND		
142	FL-I/F	I/F for Flash Memory Write	IN
143	R/C	Remote Control Signal Input	IN
144	FL-ST	Strobe for Flash Memory Write	IN

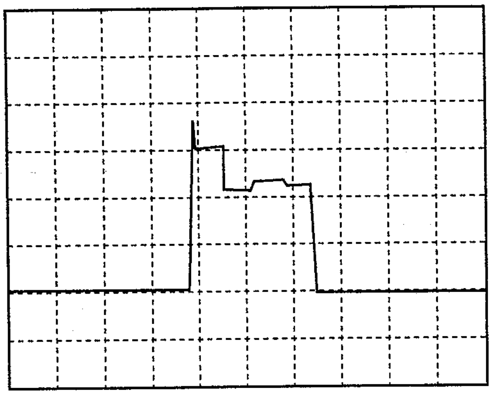
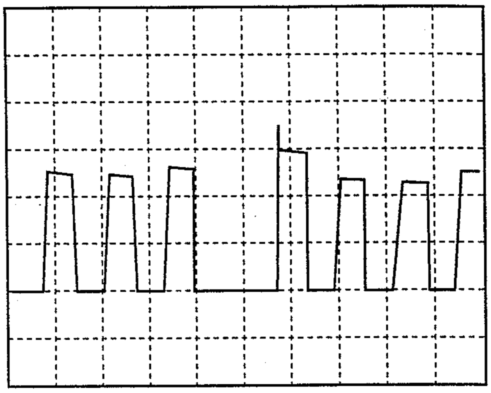
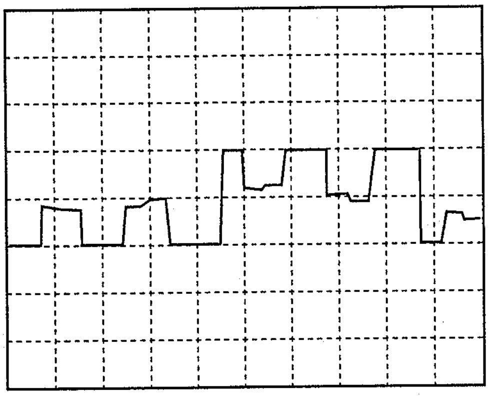
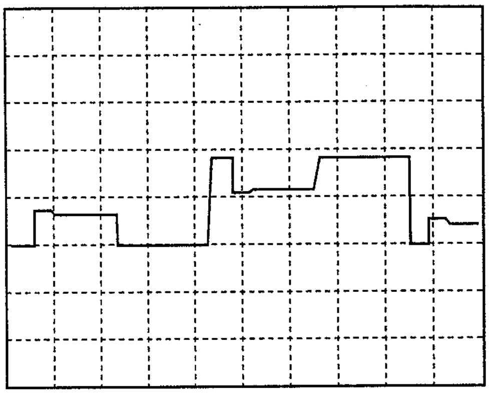
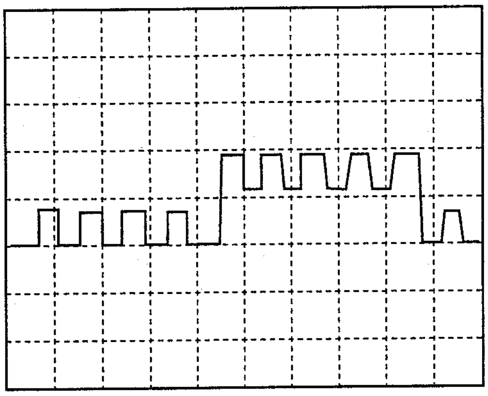
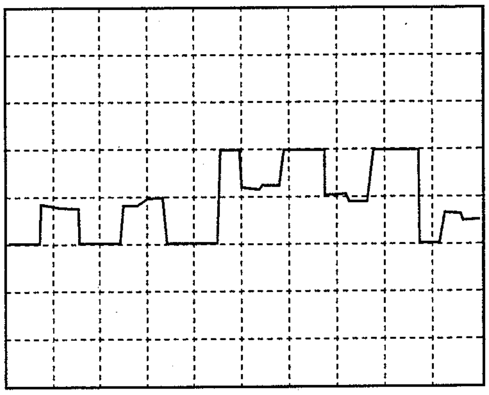
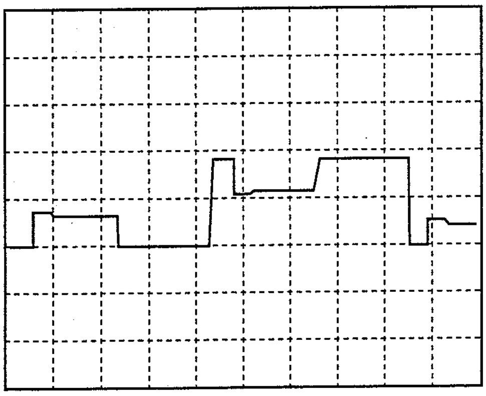
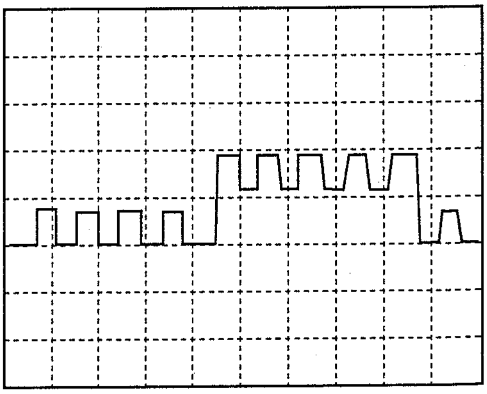
I/O Expander Pin Function Table

Pin No.	Function Name	Function	Action	IN/OUT
1	SDOUT	Serial Data Output	"H" active	OUT
2	SDIN	Serial Data Input	"H" active	IN
3	SDCLK	Serial Data Clock	"H" active	OUT
4	CHIP-SEL	Chip Select	"H" active	IN
5	5V	-	-	-
6	RESET	Reset Signal Input		IN
7	GND	-	-	-
8	S-SW	S-Video Input Detect	"L":S Input	IN
9	SECAM-ID	SECAM ID Detect		IN
10	WARNING	Warning Output	"H":on "L":off	OUT
11	LAMP-REP	Lamp Replace LED	"H":on "L":off	OUT
12	READY	Ready Output	"H":on "L":off	OUT
13	Not Used	OUT		
14	--	Test		OUT
15	XGA	XGA filter on/off		OUT
16	GND	-	-	-
17	A_SW1	A_SW1 Output	"H": CG1/AV1 "L": CG2/AV2	OUT
18	M1_M2 SW	M1_M2 SW Output	"H": CG1 "L": CG2	OUT
19	CPU-MOUSE	Air Mouse Control Signal	"H": CG1/CG2 w/o menu "L": other	OUT
20	FREEZE2	Freeze ON/OFF	"H":on "L":off	OUT
21	FREEZE1	Freeze ON/OFF	"H":on "L":off	OUT
22	FANDRIVE	Fan Drive ON/OFF	"H":on "L":off	OUT
23	AUDIO-MUTE	Audio Mute	"H":mute on "L":mute off	OUT
24	AV1/AV2	AV1/AV2 Switch Output	"L":AV1 "H":AV2	OUT
25	CG1/CG2	CG1/CG2 Switch Output	"L":CG1 "H":CG2	OUT
26	A_SW2	A_SW2 Output	"H": CG1/2 "L": AV1/2	OUT
27	NTSC/OTHER	NTSC Input Switch	"L":NTSC "H":other	OUT
28	CG/AV	CG/AV Switch	"L":CG "H":AV	OUT
29	FOCUS(-)	(-) Focus Drive	"H":On "L":Off	OUT
30	FOCUS(+)	(+)Focus Drive	"H":On "L":Off	OUT
31	ZOOM(-)	Zoom Down	"H":On "L":Off	OUT
32	ZOOM(+)	Zoom Up	"H":On "L":Off	OUT

■ Waveforms

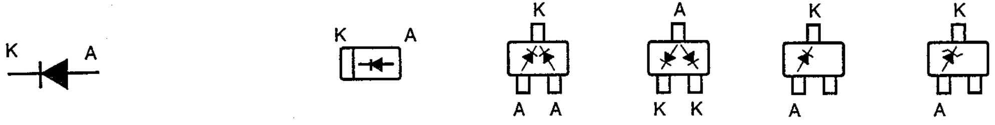
INPUT SIGNAL **1V p-p** **0.5V/ div** **10µs/div**		**IC101-53** **(Video-in)** **50mV/ div** **10µs/div**	
IC101-55 **(Y-in)** **50mV/ div** **10µs/div**		**IC101-57** **(C-in)** **50mV/ div** **10µs/div**	
IC1131-6 **(Y-in)** **50mV/ div** **10µs/div**		**IC1131-8** **(B-Y in)** **1V p-p** **50mV/ div** **10µs/div**	
IC1131-9 **(R-Y in)** **1V p-p** **50mV/ div** **10µs/div**		**K23R-1** **(AV_B out)** **50mV/ div** **10µs/div**	

K23R-2 (AV_G out) 50mV/ div 10µs/div		**K23R-5 (AV_R out) 50mV/ div 10µs/div**	
K23P-9 (AV_H out) 0.1V/ div 10µs/div		**K23P-10 (AV_V out) 0.2V/ div 2ms/div**	
TP201 (R) 0.5V/ div 10µs/div		**TP202 (G) 0.5V/ div 10µs/div**	
TP203 (B) 0.5V/ div 10µs/div		**TP241 (R) 0.5V/ div 10µs/div**	

TP261 (G) **0.5V/ div** **10μs/div**		**TP281 (B)** **0.5V/ div** **10μs/div**	
TP501 (R) **5V/ div** **5μs/div**		**TP502 (G)** **5V/ div** **5μs/div**	
TP503 (B) **5V/ div** **5μs/div**		**TP511 (R)** **5V/ div** **5μs/div**	
TP512 (G) **5V/ div** **5μs/div**		**TP513 (B)** **5V/ div** **5μs/div**	

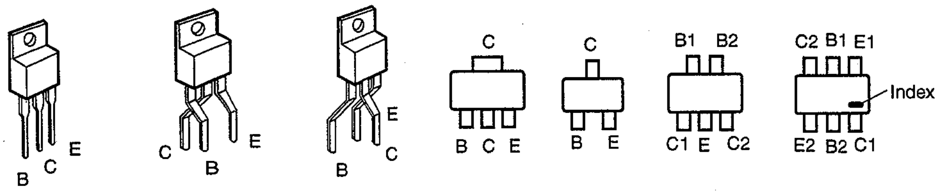
Pin description of diode, transistor and IC

Diode


K
A
K
A
K
A A
A
K K
K
A
K
A

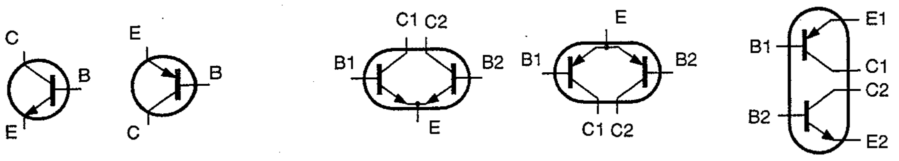
K: Cathode
A: Anode

Transistor/FET

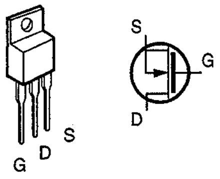

B
C
E
C
B
E
B
C
E
C
B C E
C
B E
B1 B2
C1 E C2
C2 B1 E1
Index
E2 B2 C1

C: Collector
B: Base
E: Emitter

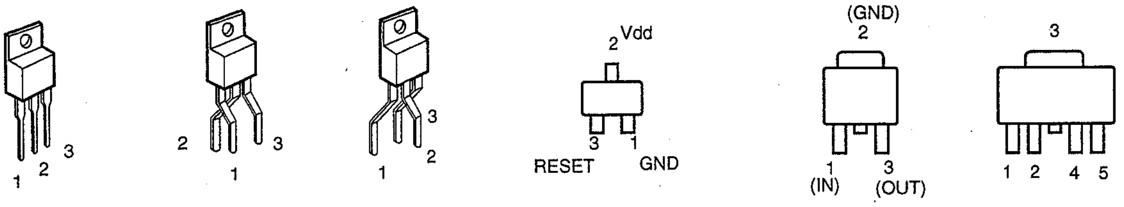
D: Drain
G: Gate
S: Source

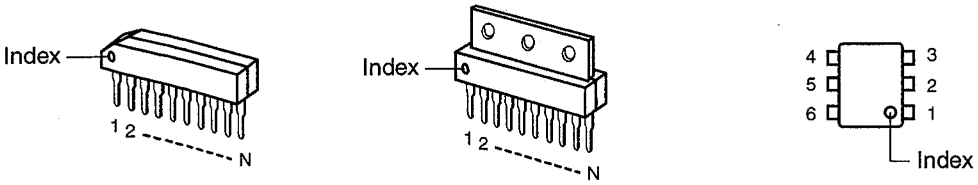

C
B
E
E
B
C
C1 C2
B1
B2
E
E
B1
B2
C1 C2
E1
B1
C1
C2
B2
E2

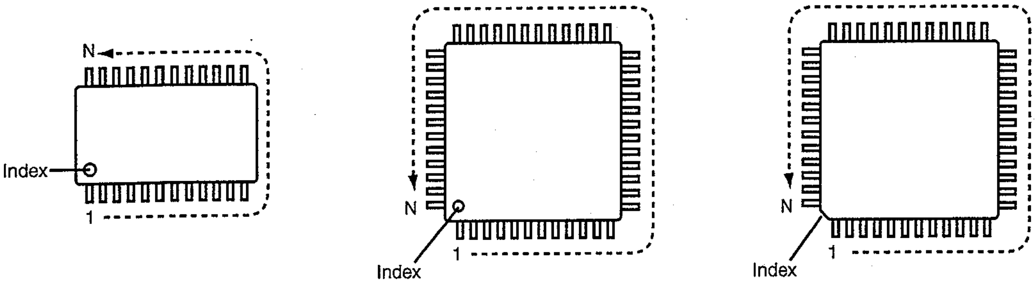
FET

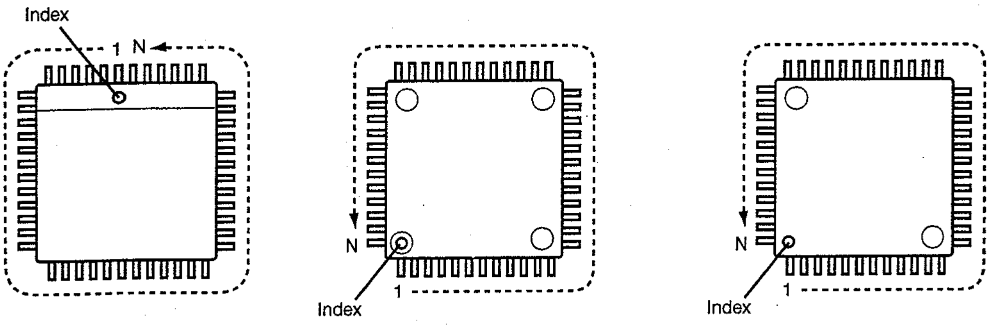


IC


1
2
3
2
1
3
1
2
3
2
Vdd
3
1
RESET
GND
(GND)
2
1
3
(IN)
(OUT)
3
1
2
4
5


Index
1
2
N
Index
1
2
N
4
5
6
3
2
1
Index


N
Index
1
N
1
Index
N
1
Index


Index
1
N
N
1
Index
N
1
Index

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading

Example 2000 K K 1000 BG

BG — Characteristic

Example 160 E M 10

10 — Capacitance value

Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.

M — Tolerance

E — Type

160 — Rated voltage

● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading

Example L2 C1 4R7 K N

K — Tolerance

4R7 — Inductance value

C1 — Manufacture code

L2 — Unique code

Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading

Example 1/2 D J 10K B

B — Characteristic
- Z (Carbon fuse)
- B (Non-burnable)

Example 6 W K 8.2

Example 1/2 C K 1M

1M — Resistance value
- K indicates in KΩ
- M indicate in MΩ

K — Tolerance (see below table)

C — Material (see below table)

1/2 — Rated wattage (W)

Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
--	1S1555,1S2473,1S2076,1SS133,DS442,1SS176
K	1S1555,1S2473,1S2076,DS442
L	1S1555,1S2076A,1S2471
M	1SS133,1SS176,GMA01
N	1S1555,1S2473,1S2076,1SS133,DS442,1SS176,1N4148
P	1S1555,1S2076A,1S2471,1N4148
R	1S1555,1S2076,1S2473,DS442,1N4148
AA	1S1555,1S2076,1S2473,1SS133,DS442,1SS176,1N4148,GMA01

● Transistor (NPN type)

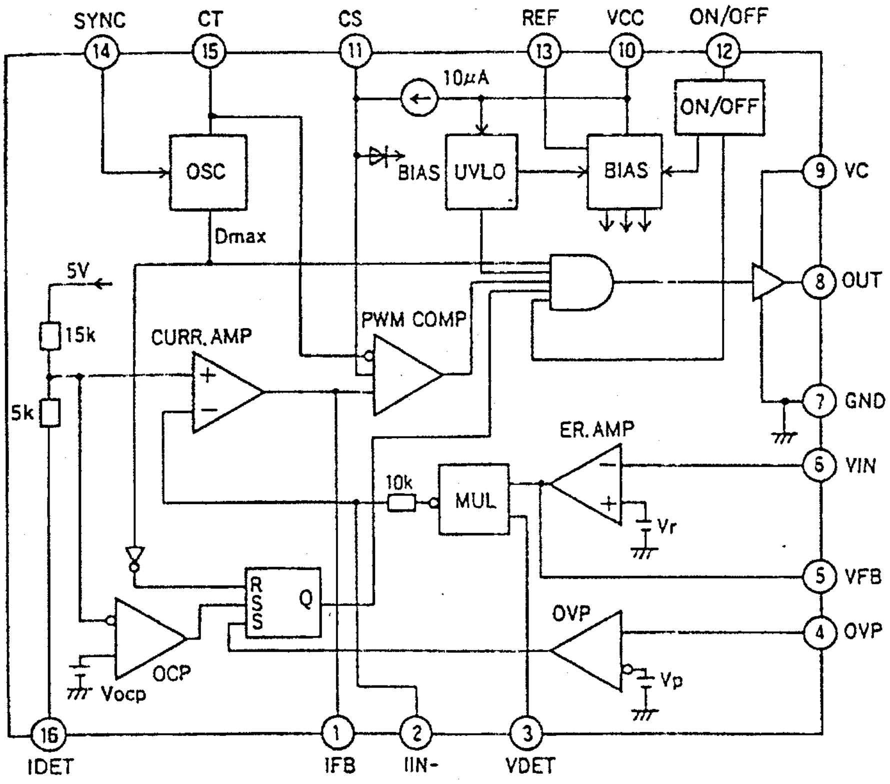
Mark	Type number					
--	2SC536	2SC945A	2SC1815	2SC1740	2SC1740S	KSC945C
A	E, F, G	P, Q, R	O, Y, G	Q, R, S	Q, R, S	
B	E, F, G	P, Q, R	O, Y, G	Q, R, S		
D	F, G	P, Q	Y, G	Q, R, S		
F	F, G	P	G	R, S		
H	F, G	P, Q	Y, G	Q, R, S		Y, G
I	E, F, G	P, Q, R	O, Y, G	Q, R, S		Y, G
G	F, G	P	G	R, S		G
AD	F, G	Q, R	Y, GR		Q, R, S	
AE	E, F, G	Q, R	O, Y, GR		Q, R, S	

● Transistor (PNP type)

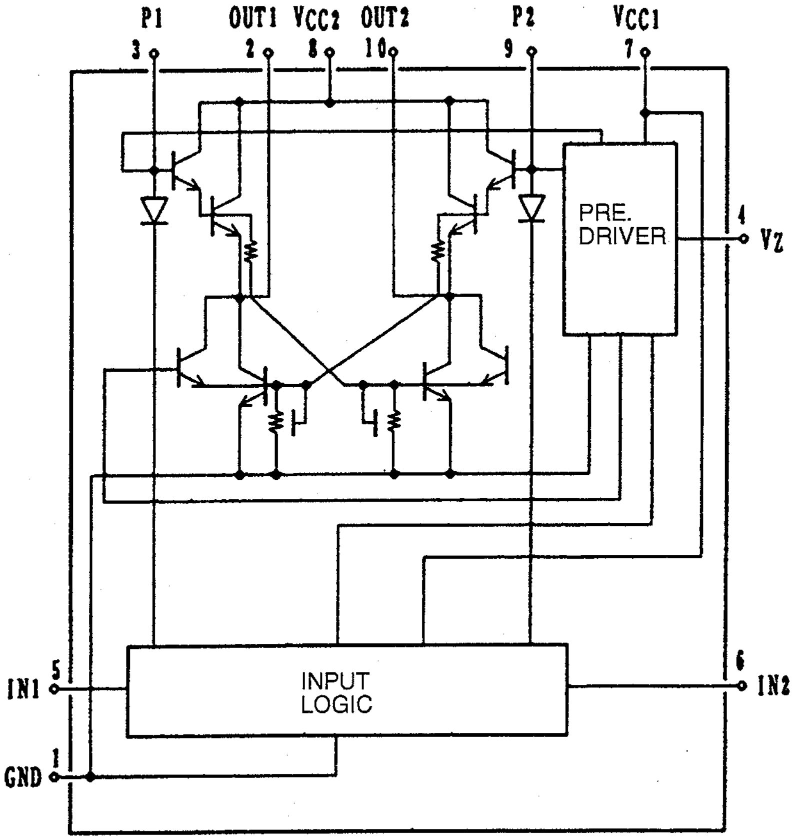
Mark	Type number					
--	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KSA733C
Y	E, F	Q, R	O, Y, G	Q, R		
W	F	R	Y, G	R		
V	E, F	Q, R	O, Y, G	Q, R		Y, G
U	F	R	Y, G	R		G
Z	E, F	Q, R	O, Y, G	Q, R	Q, R	
AB	F	R	Y		Q, R	
AE	E, F	Q, R	O, Y		R	

■ IC Block Diagrams

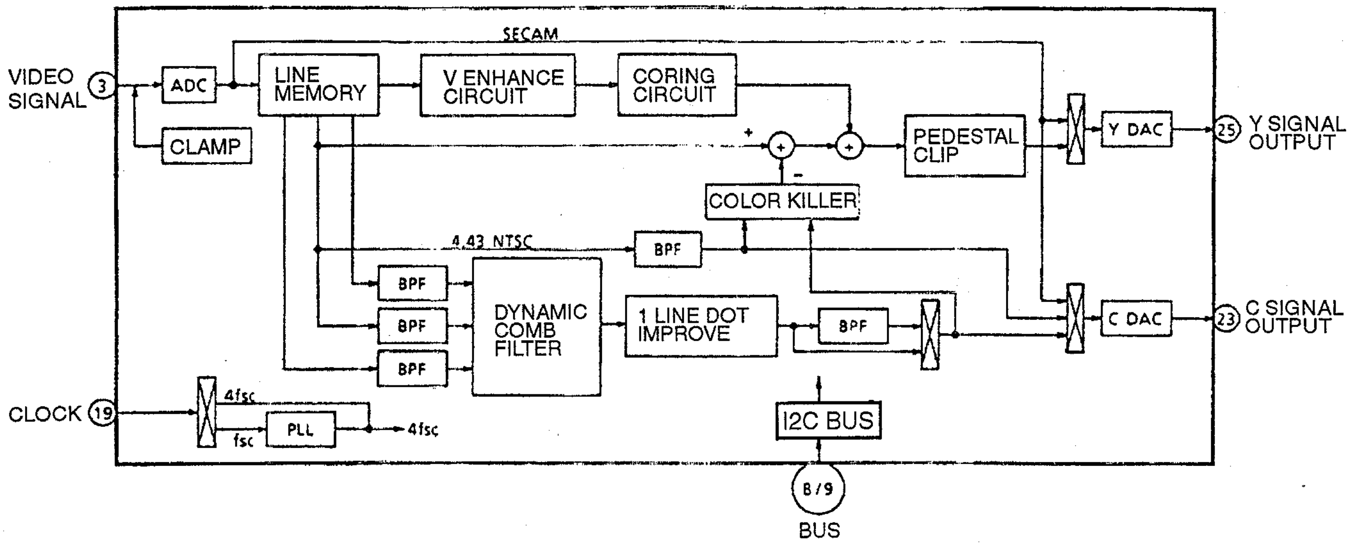
● FA5331M <Active Filter & P.F. Control, IC01>


SYNC
CT
CS
REF
VCC
ON/OFF
14
15
11
13
10
12
10μA
ON/OFF
OSC
BIAS
UVLO
BIAS
9 VC
Dmax
5V
8 OUT
15k
CURR. AMP
PWM COMP
5k
7 GND
ER. AMP
6 VIN
10k
MUL
Vr
R
S
S
Q
5 VFB
OVP
4 OVP
OCP
Vocp
Vp
16
1
2
3
IDET
IFB
IIN-
VDET

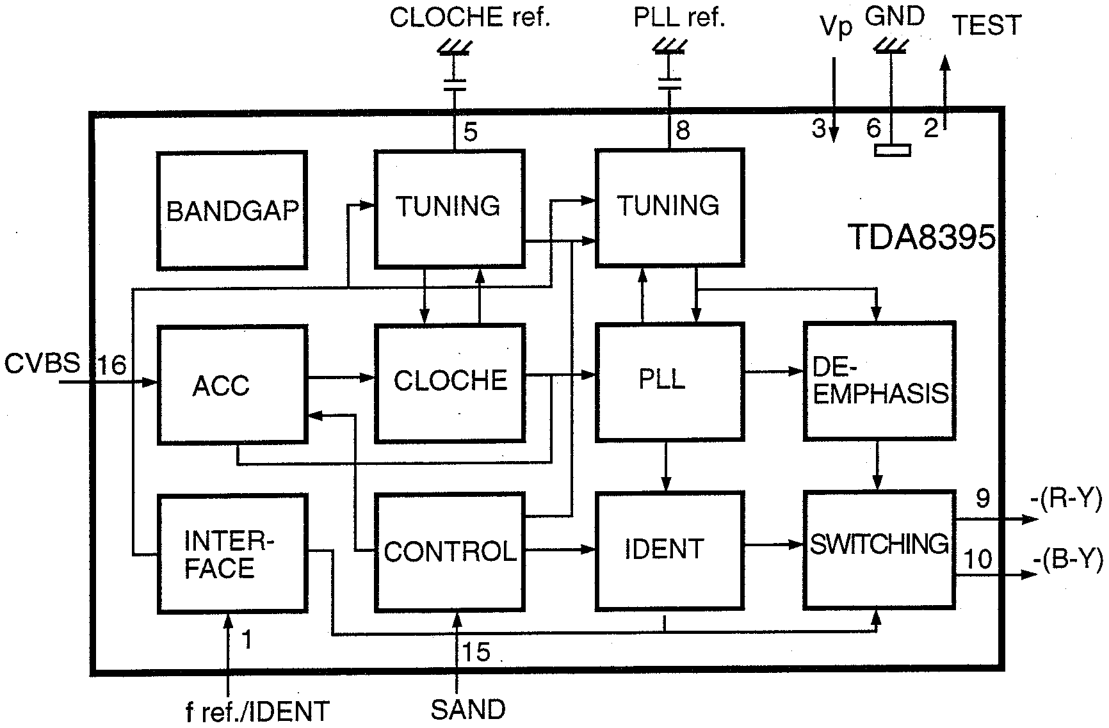
● LB1641 <Motor Driver, IC1601, IC1611>


P1
OUT1
VCC2
OUT2
P2
VCC1
3
2
8
10
9
7
PRE.
DRIVER
4
VZ
INPUT
LOGIC
5
IN1
6
IN2
1
GND

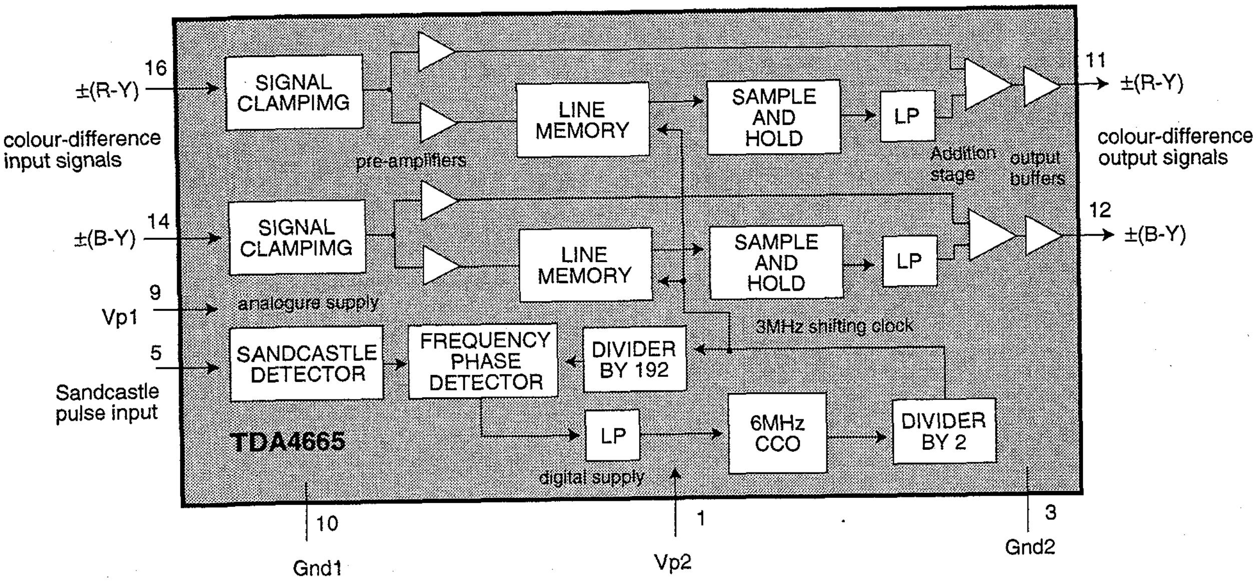
● TC9090 <3-Line Y/C Separator, IC2301>


SECAM
VIDEO SIGNAL
3
ADC
CLAMP
LINE MEMORY
V ENHANCE CIRCUIT
CORING CIRCUIT
+
-
PEDESTAL CLIP
COLOR KILLER
Y DAC
25
Y SIGNAL OUTPUT
4.43 NTSC
BPF
BPF
BPF
BPF
DYNAMIC COMB FILTER
1 LINE DOT IMPROVE
BPF
C DAC
23
C SIGNAL OUTPUT
CLOCK
19
4fsc
fsc
PLL
4fsc
I2C BUS
8/9
BUS

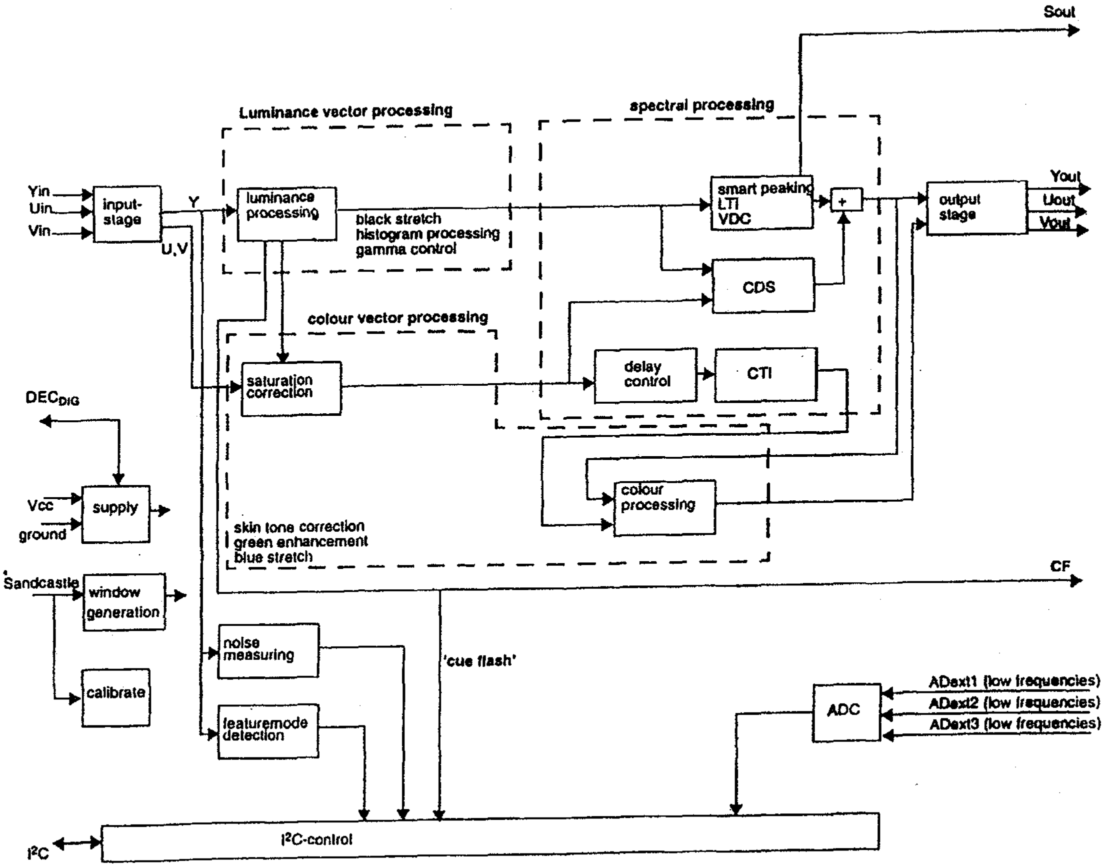
● TDA8395 <SECAM Decoder, IC102>


CLOCHE ref.
PLL ref.
Vp
GND
TEST
5
8
3
6
2
BANDGAP
TUNING
TUNING
TDA8395
CVBS
16
ACC
CLOCHE
PLL
DE-EMPHASIS
9
-(R-Y)
10
-(B-Y)
INTER-FACE
CONTROL
IDENT
SWITCHING
1
15
f ref./IDENT
SAND

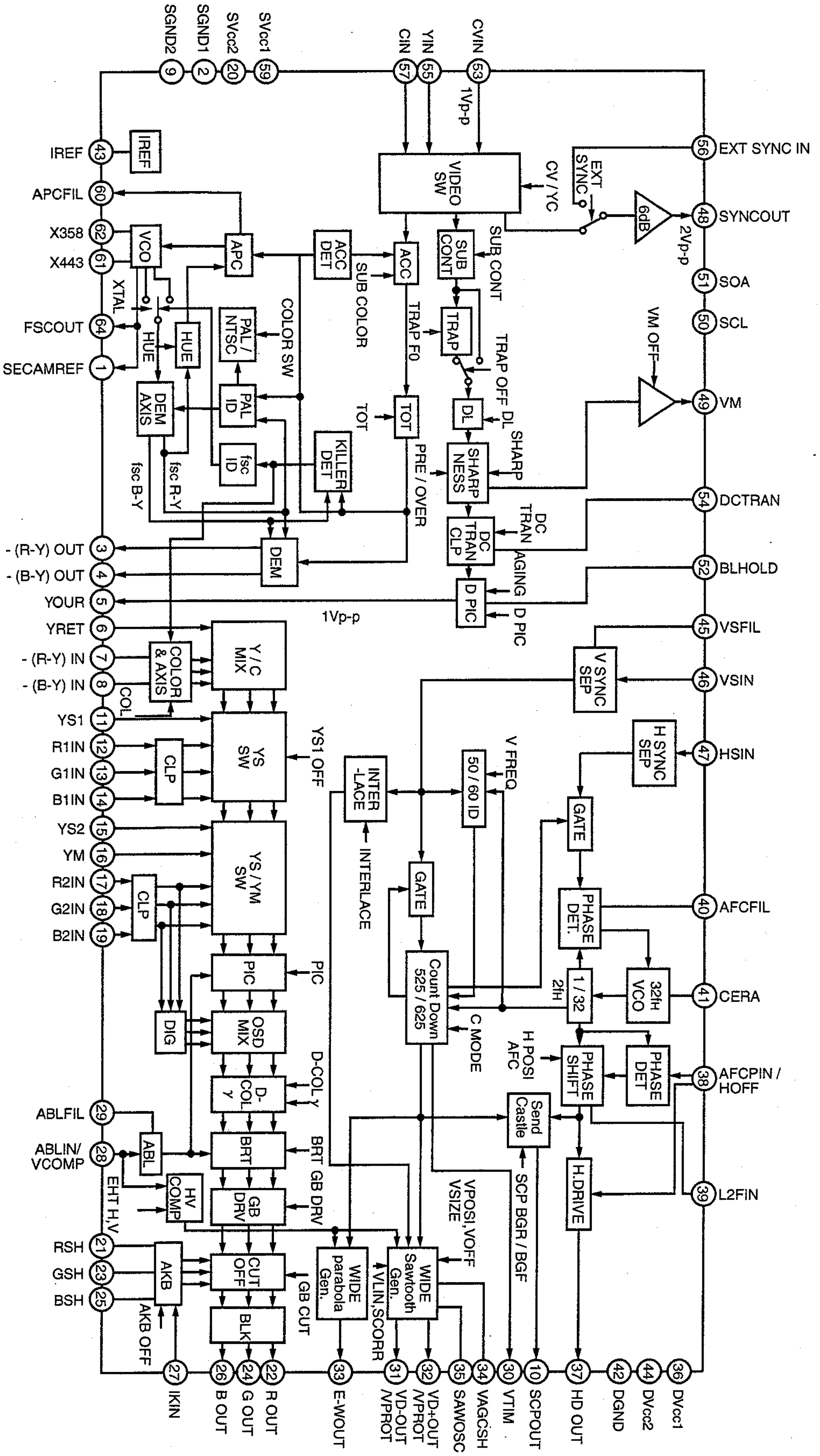
● TDA4665 <Baseband Delay Line, IC104>


16
±(R-Y)
colour-difference input signals
14
±(B-Y)
9
Vp1
5
Sandcastle pulse input
SIGNAL CLAMPIMG
SIGNAL CLAMPIMG
pre-amplifiers
LINE MEMORY
LINE MEMORY
SAMPLE AND HOLD
SAMPLE AND HOLD
LP
LP
Addition stage
output buffers
11
±(R-Y)
colour-difference output signals
12
±(B-Y)
analogure supply
3MHz shifting clock
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
LP
6MHz CCO
DIVIDER BY 2
TDA4665
digital supply
10
Gnd1
1
Vp2
3
Gnd2

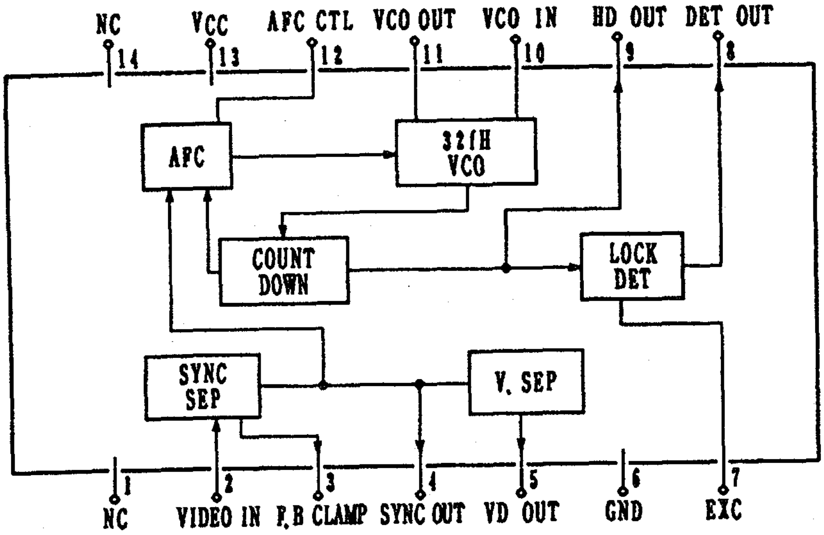
● TDA9178T <YUV Picture Improvement, IC1131>


Sout
Luminance vector processing
spectral processing
Yin
Uin
Vin
input-stage
Y
U,V
luminance processing
black stretch
histogram processing
gamma control
smart peaking
LTI
VDC
+
CDS
output stage
Yout
Uout
Vout
colour vector processing
saturation correction
delay control
CTI
colour processing
skin tone correction
green enhancement
blue stretch
DECDIG
Vcc
ground
supply
Sandcastle
window generation
calibrate
CF
noise measuring
featuremode detection
'cue flash'
ADC
ADext1 (low frequencies)
ADext2 (low frequencies)
ADext3 (low frequencies)
I²C
I²C-control

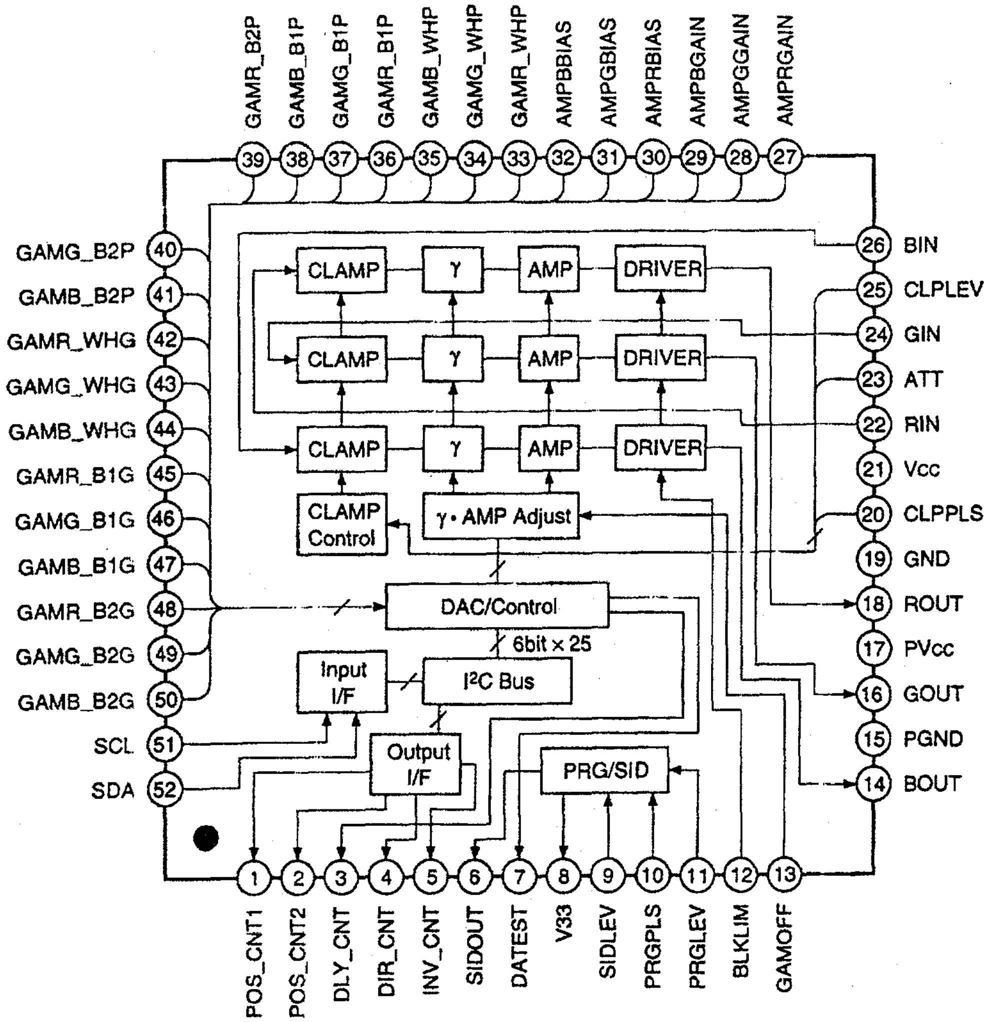
● CXA2076 <Video/Chroma, IC101>


SGND2 ⑨
SGND1 ②
SVcc2 ⑳
SVcc1 (59)
CIN (57)
YIN (55)
CVIN (53)
1Vp-p
IREF (43)
APCFIL (60)
X358 (62)
X443 (61)
FSCOUT (64)
SECAMREF ①
- (R-Y) OUT ③
- (B-Y) OUT ④
YOUR ⑤
YRET ⑥
- (R-Y) IN ⑦
- (B-Y) IN ⑧
YS1 ⑪
R1IN ⑫
G1IN ⑬
B1IN ⑭
YS2 ⑮
YM ⑯
R2IN ⑰
G2IN ⑱
B2IN ⑲
ABLFIL ㉙
ABLIN/ VCOMP ㉘
RSH ㉑
GSH ㉓
BSH ㉕
EXT SYNC IN (56)
SYNCOUT (48)
SOA (51)
SCL (50)
VM (49)
DCTRAN (54)
BLHOLD (52)
VSFIL (45)
VSIN (46)
HSIN (47)
AFCFIL (40)
CERA (41)
AFCPIN / HOFF (38)
L2FIN (39)
IKIN ㉗
B OUT ㉖
G OUT ㉔
R OUT ㉒
E-WOUT ㉝
VD-OUT /VPROT ㉛
VD+OUT /VPROT ㉜
SAWOSC ㉟
VAGCSH ㉞
VTIM ㉚
SCPOUT ⑩
HD OUT ㊲
DGND (42)
DVcc2 (44)
DVcc1 ㊱
IREF
VCO
APC
ACC DET
ACC
VIDEO SW
SUB CONT
TRAP
DL
SHARP NESS
DC TRAN CLP
D PIC
HUE
HUE
PAL / NTSC
DEM AXIS
PAL ID
fsc ID
KILLER DET
TOT
DEM
Y / C MIX
COLOR & AXIS
YS SW
CLP
YS / YM SW
CLP
PIC
OSD MIX
DIG
D-COL Y
BRT
ABL
HV COMP
GB DRV
AKB
CUT OFF
BLK
WIDE parabola Gen.
WIDE Sawtooth Gen.
INTER -LACE
50 / 60 ID
GATE
Count Down 525 / 625
V SYNC SEP
H SYNC SEP
GATE
PHASE DET.
1 / 32
32fH VCO
PHASE SHIFT
PHASE DET
Send Castle
H.DRIVE
6dB
CV / YC
EXT SYNC
2Vp-p
SUB CONT
SUB COLOR
COLOR SW
TRAP F0
TRAP OFF
DL
SHARP
VM OFF
XTAL
fsc R-Y
fsc B-Y
TOT
PRE / OVER
DC TRAN
AGING
D PIC
1Vp-p
COL
YS1 OFF
V FREQ
INTERLACE
PIC
D-COL Y
BRT
GB DRV
GB CUT
EHT H,V
AKB OFF
VLIN,SCORR
VPOSI,VOFF VSIZE
SCP BGR / BGF
C MODE
H POSI AFC
2fH

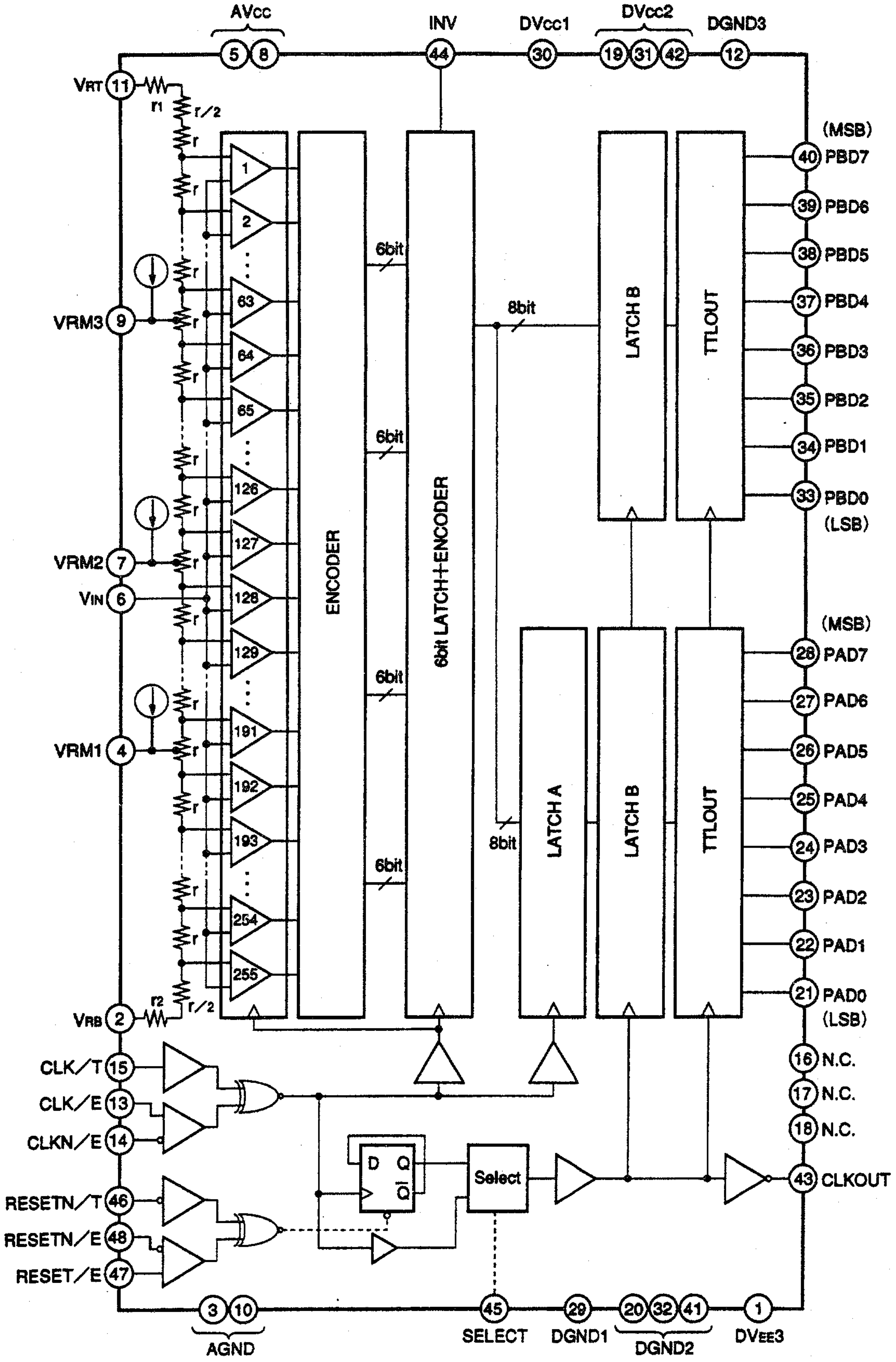
● LA7217 <Sync. Separator, IC2603>


NC
VCC
AFC CTL
VCO OUT
VCO IN
HD OUT
DET OUT
14
13
12
11
10
9
8
AFC
32fH
VCO
COUNT
DOWN
LOCK
DET
SYNC
SEP
V. SEP
1
2
3
4
5
6
7
NC
VIDEO IN
F.B CLAMP
SYNC OUT
VD OUT
GND
EXC

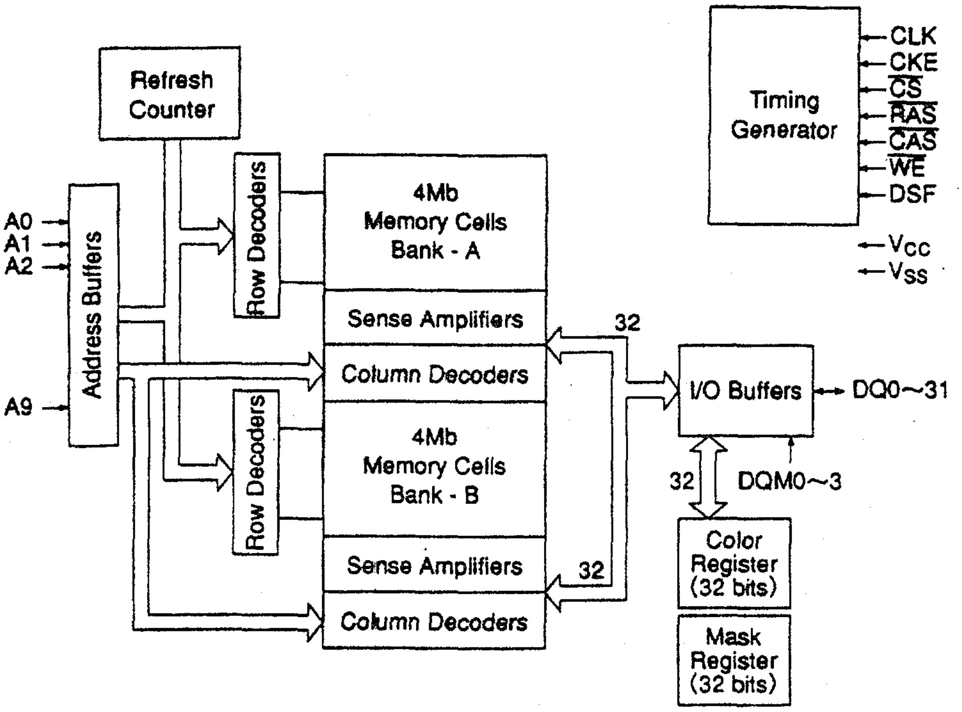
● CXA2111 <LCD Driver, IC401>


GAMR_B2P
GAMB_B1P
GAMG_B1P
GAMR_B1P
GAMB_WHP
GAMG_WHP
GAMR_WHP
AMPBBIAS
AMPGBIAS
AMPRBIAS
AMPBGAIN
AMPGGAIN
AMPRGAIN
39
38
37
36
35
34
33
32
31
30
29
28
27
GAMG_B2P 40
GAMB_B2P 41
GAMR_WHG 42
GAMG_WHG 43
GAMB_WHG 44
GAMR_B1G 45
GAMG_B1G 46
GAMB_B1G 47
GAMR_B2G 48
GAMG_B2G 49
GAMB_B2G 50
SCL 51
SDA 52
26 BIN
25 CLPLEV
24 GIN
23 ATT
22 RIN
21 Vcc
20 CLPPLS
19 GND
18 ROUT
17 PVcc
16 GOUT
15 PGND
14 BOUT
CLAMP
γ
AMP
DRIVER
CLAMP
γ
AMP
DRIVER
CLAMP
γ
AMP
DRIVER
CLAMP
Control
γ• AMP Adjust
DAC/Control
6bit×25
Input
I/F
I²C Bus
Output
I/F
PRG/SID
1
2
3
4
5
6
7
8
9
10
11
12
13
POS_CNT1
POS_CNT2
DLY_CNT
DIR_CNT
INV_CNT
SIDOUT
DATEST
V33
SIDLEV
PRGPLS
PRGLEV
BLKLIM
GAMOFF

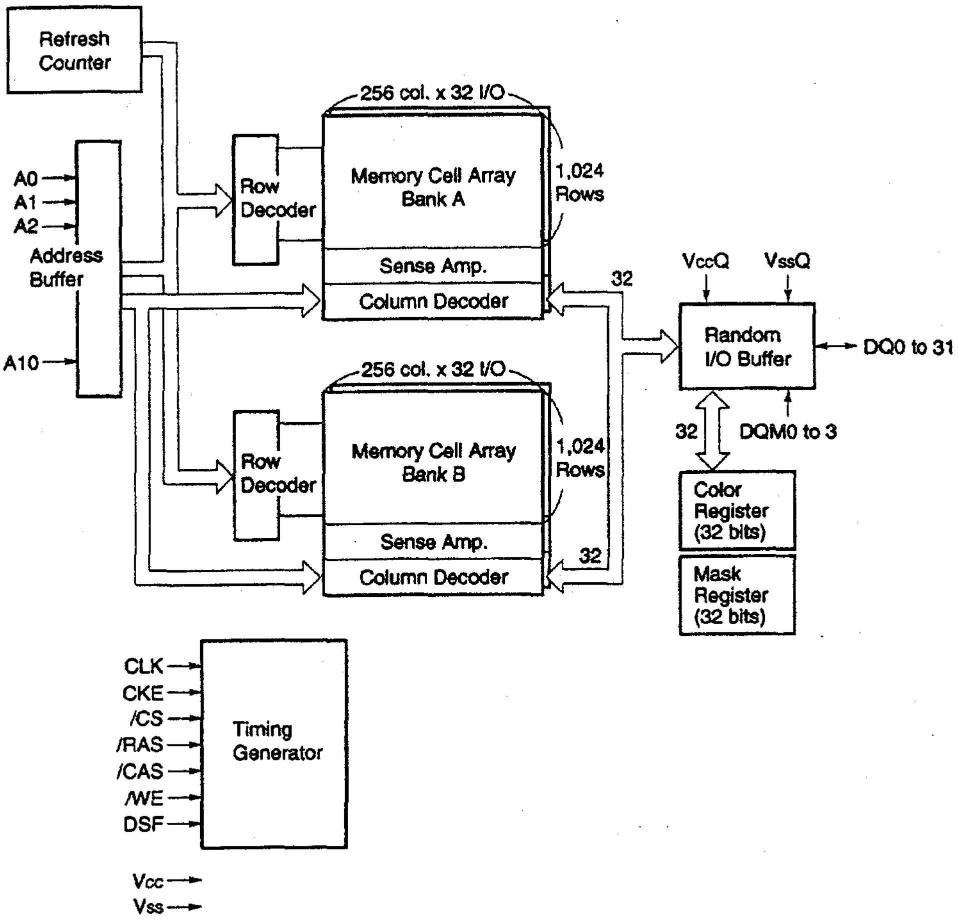
● CXA3276 <A/D Converter, IC204, IC206, IC208>


AVcc
5
8
INV
44
DVcc1
30
DVcc2
19
31
42
DGND3
12
VRT 11
r1
r/2
r
VRM3 9
VRM2 7
VIN 6
VRM1 4
VRB 2
r2
1
2
63
64
65
126
127
128
129
191
192
193
254
255
ENCODER
6bit
6bit LATCH+ENCODER
8bit
LATCH A
LATCH B
TTLOUT
(MSB)
40 PBD7
39 PBD6
38 PBD5
37 PBD4
36 PBD3
35 PBD2
34 PBD1
33 PBD0
(LSB)
(MSB)
28 PAD7
27 PAD6
26 PAD5
25 PAD4
24 PAD3
23 PAD2
22 PAD1
21 PAD0
(LSB)
16 N.C.
17 N.C.
18 N.C.
43 CLKOUT
CLK/T 15
CLK/E 13
CLKN/E 14
RESETN/T 46
RESETN/E 48
RESET/E 47
D
Q
Q̄
Select
3
10
AGND
45
SELECT
29
DGND1
20
32
41
DGND2
1
DVEE3

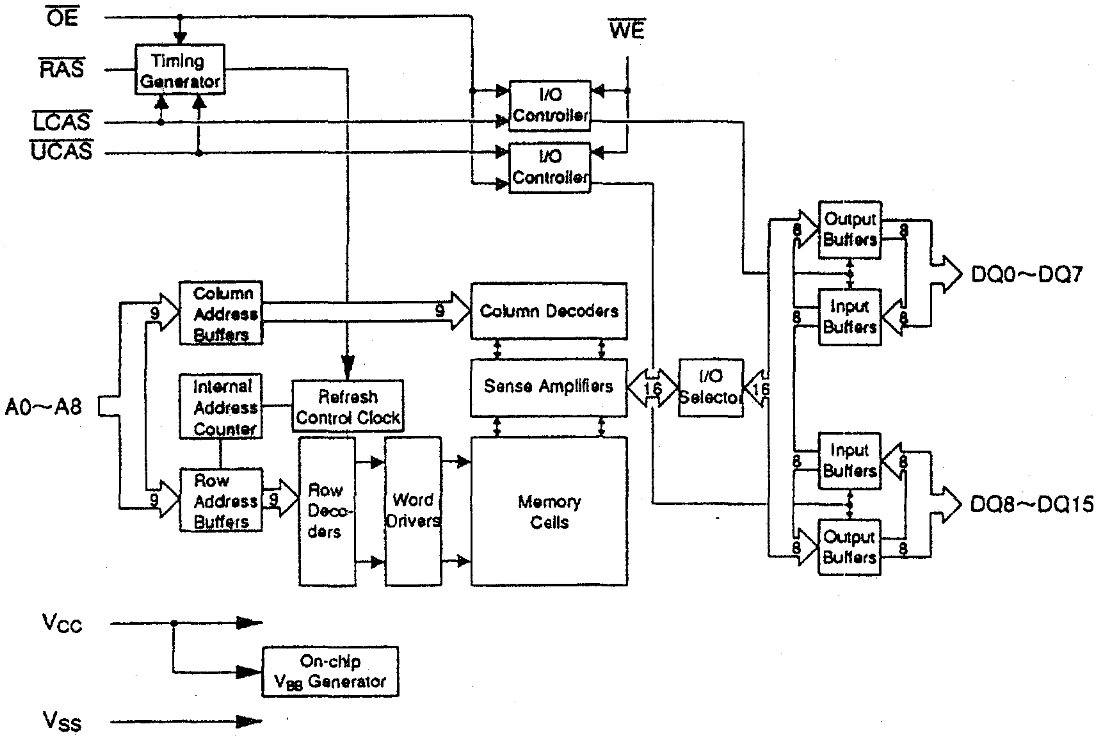
● MSM54V16258ASL <OSD RAM, IC2201, IC2202>


Refresh Counter
Timing Generator
CLK
CKE
CS
RAS
CAS
WE
DSF
Vcc
Vss
A0
A1
A2
A9
Address Buffers
Row Decoders
4Mb Memory Cells Bank - A
Sense Amplifiers
Column Decoders
Row Decoders
4Mb Memory Cells Bank - B
Sense Amplifiers
Column Decoders
32
32
I/O Buffers
DQ0~31
32
DQM0~3
Color Register (32 bits)
Mask Register (32 bits)

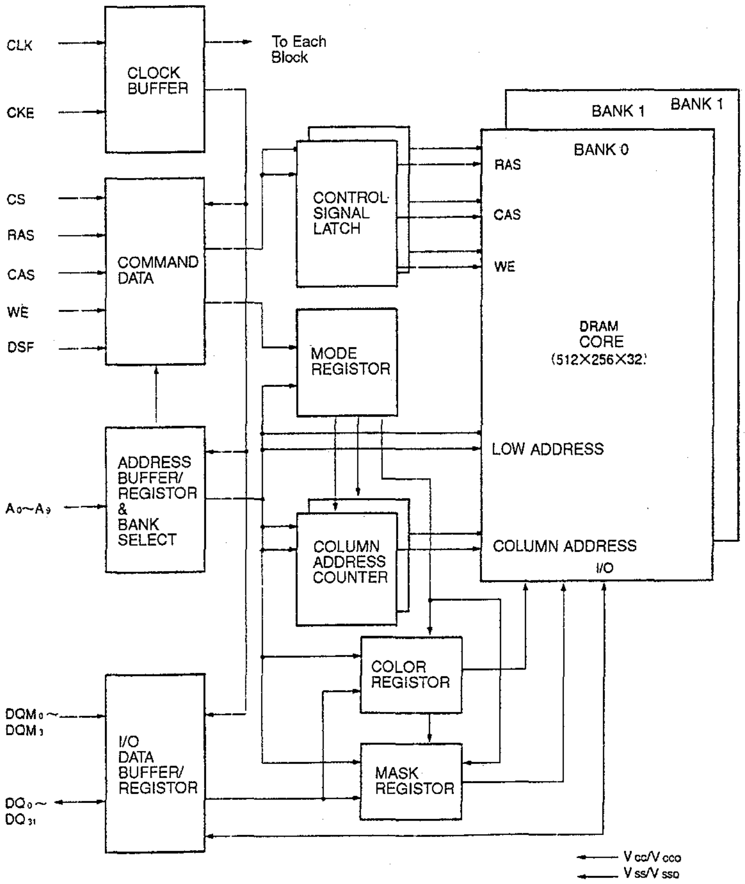
● uPD4811650 <SGRAM, IC5301, IC5321, IC5241>


Refresh Counter
A0
A1
A2
Address Buffer
A10
256 col. x 32 I/O
Row Decoder
Memory Cell Array Bank A
1,024 Rows
Sense Amp.
Column Decoder
32
256 col. x 32 I/O
Row Decoder
Memory Cell Array Bank B
1,024 Rows
Sense Amp.
Column Decoder
32
VccQ
VssQ
Random I/O Buffer
DQ0 to 31
32
DQM0 to 3
Color Register (32 bits)
Mask Register (32 bits)
CLK
CKE
/CS
/RAS
/CAS
/WE
DSF
Timing Generator
Vcc
Vss

● MSM54V25632A <SGRAM, IC6301, IC6321, IC6341>


OE
RAS
LCAS
UCAS
WE
Timing Generator
I/O Controller
I/O Controller
Output Buffers
Input Buffers
DQ0~DQ7
Column Address Buffers
Column Decoders
Sense Amplifiers
I/O Selector
Internal Address Counter
Refresh Control Clock
A0~A8
Row Address Buffers
Row Decoders
Word Drivers
Memory Cells
Input Buffers
Output Buffers
DQ8~DQ15
9
9
9
9
16
16
8
Vcc
On-chip VBB Generator
Vss

● MB81G83222 <SGRAM, IC6301, IC6321, IC6341>


CLK
CKE
CLOCK BUFFER
To Each Block
BANK 1
BANK 1
BANK 0
CS
RAS
CAS
WE
DSF
COMMAND DATA
CONTROL SIGNAL LATCH
RAS
CAS
WE
MODE REGISTOR
DRAM CORE (512×256×32)
LOW ADDRESS
ADDRESS BUFFER/ REGISTOR & BANK SELECT
A0~A9
COLUMN ADDRESS COUNTER
COLUMN ADDRESS
I/O
COLOR REGISTOR
DQM0~ DQM3
I/O DATA BUFFER/ REGISTOR
MASK REGISTOR
DQ0~ DQ31
Vcc/Vcco
Vss/Vsso

【 Electrical Parts List 】

Product safety should be considered when a component replacement is made in any area of a Projector. Components indicated by a ⚠ mark in this parts list and the schematic diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No.,Part No.,and descriptions.

Read description in the Capacitor and Resister as follows:

(Revised May / 1998)

CAPACITOR

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols

Static capacitance of 10PF or less					
A: Non-designated	**B**: ± 0.1PF	**C**: ± 0.25PF	**D**: ± 0.5PF	**F**: ± 1PF	**G**: ± 2PF
H: +0.1 - 0PF	**L**: +0 - 0.1PF	**R**: +0.25 - 0PF	**S**: +0 - 0.25PF	**E**: +0 - 1PF	
J: ± 5%	**K**: ± 10%	**M**: ± 20%			
Note: J. K. and M are used only for tubular Ceramic Capacitors					
Static capacitance of more than 10PF					
A:Non-designated	**B**: ± 0.1%	**C**: ± 0.25%	**D**: ± 0.5%	**F**: ± 1%	**G**: ± 2%
E: ± 2.5%	**H**: ± 3%	**J** : ± 5%	**K**: ± 10%	**L** : ± 15%	**M**: ± 20%
N: ± 30%	**P**: +100 - 0%	**Q**: +30 - 10%	**R**: +20 - 0%	**T**: +50 - 10%	**U**: +75 - 10%
V: +20 - 10%	**W**: +100 - 10%	**X**: +40 - 20%	**Y**: +150 - 10%	**Z**: +80 - 20%	

Rated value: P=Pico farad, U=Micro farad

Material :	
CERAMIC	Temperature compensating ceramic High dielectric rate ceramic Semiconductor ceramic
MT - PAPER	Metallized paper
POLYESTER	Polyester
MT - POLYEST	Metallized polyester
POLYPRO	Polypropylene
MT - POLYPRO	Metallized polypropylene
COMPO FILM	Composite film
MT - COMPO	Metallized composite film
STYRENE	Styrol
TA - SOLID	Tantalum oxide solid electrolytic
AL - SOLID	Aluminium solid electrolytic
ELECT	Aluminum foil electrolytic
NP - ELECT	Non - polarized electrolytic
OS - SOLID	Aluminium solid capacitors with organic semiconductive electrolyte
POS - SOLID	Polymerized organic semiconductor
DL - ELECT	Electric double layer electrolytic
AL - SOLID	Aluminium manganese wind solid
PPS - FILM	Polyphenylene sulfide film
MT - PPS - FILM	Metallized Polyphenylene sulfide film
MT - PEN - FILM	Metallized polyethylenenaphthalate film
CAPACITOR	Other

FIXED RESISTER

CARBON 4.7K J A 1/4W

Rated Wattage

NOTE : What are called "cement resistors " are noncombustible, so are indicated as "General" (symbol A), not "Flame retardant (including noncombustible)" (symbol B).

Performance Symbols:

A:General **B**: Flame retardance (including noncombustible)

Z:Low noise (Less than 100Kohms : 0.3 μ V/V, 100Kohms to 1Mohm : 0.5 μ V/V, More than 1Mohm : 1.0 μ V/V)

C~Y :Temperature characteristics

T: ± 10ppm/℃ **U**: ± 25ppm/℃ **C**: ± 50ppm/℃ **D**: ± 100ppm/℃ **E**:200ppm/℃ **F**: ± 250ppm/℃

G: ± 350ppm/℃ **H**: ± 1000ppm/℃ ± 10% **W**: ± 1200ppm/℃ ± 10% **Y**: ± 1400ppm/℃ ± 10%

J: ± 2000ppm/℃ ± 10% **K**: ± 2400ppm/℃ ± 10% **L**: ± 2700ppm/℃ ± 10%

M: ± 3000ppm/℃ ± 10% **N**: ± 3300ppm/℃ ± 10% **P**: ± 3600ppm/℃ ± 10%

Q: ± 3900ppm/℃ ± 10% **R**: ± 4200ppm/℃ ± 10% **S**: ± 4300ppm/℃ ± 10%

V: ± 4500ppm/℃ ± 10% **X**: ± 800ppm/℃ ± 150ppm/℃

Tolerance Symbols:

A: ± 0.05% **B**: ± 0.1% **C**: ± 0.25% **D**: ± 0.5% **F**: ± 1% **G**: ± 2%

J: ± 5% **K**: ± 10% **M**: ± 20% **P**:+5 - 15% **Z**: Use when 0 ohm

Rated value, ohms : K: X1,000 ohms. M: X1,000,000 ohms

Material :	
CARBON	Carbon film fixed
MT - FILM	Metal film fixed
OXIDE - MT	Oxide metal film fixed
SOLID	Solid
MT - GLAZE	Metal glaze type fixed
WIRE WOUND	power type covered wiring fixed
CERAMIC RES	Ceramic fixed
FUSIBLE RES	Fusible
RESISTER	Used for "others"

CAUTION TO REPLACE ASSY BOARD

CAUTION TO REPLACE ASSY LAMP BALLAST

In case this P. C. B. Assy is fault, replace the P. C. B. Assy completely, do not replace the individual component.

CAUTION TO REPLACE ASSY POWER

▲ AFTER REPLACING THE PARTS IN THE +15V DC CIRCUIT, READJUST THE +15V DC VOLTAGE.
(REFER TO ELECTRICAL ADJUSTMENTS)

▲ AFTER REPLACING THE PARTS IN THE +15.5V DC CIRCUIT, READJUST THE +15.5V DC VOLTAGE.
(REFER TO ELECTRICAL ADJUSTMENTS)

▲ AFTER REPLACING THE PARTS IN THE P.F.C. CIRCUIT, READJUST THE P.F.C. OUTPUT VOLTAGE.

CAUTION TO REPLACE ASSY MAIN & IC803.

▲ CAUTION: Do not replace IC803 unreasonably!!
IC803 (EEP-ROM) memorizes the data adjusted at Service Mode, and should not be replaced except for the case of defective product.
Lamp Illumination Time, Data No. 24 of Service Mode, is memorized in IC803 to indicate the span of Lamp Life.
When IC803 is replaced, Lamp Illumination Time is reset at the same time.
(Lamp Illumination Time can not be set to the previous value.)

▲ CAUTION TO REPLACE IC803.

When IC is replaced with new one, CPU write in initial data in IC803. Initial data is not the same data as Factory Initial Data, and the further adjustments and input as follows are required. Please refer to "Electrical Adjustments" for further adjustments.
Lamp Illumination Time is reset to the initial value.

▲ CAUTION TO REPLACE MAIN ASSY.

(In the case IC803 is not damaged.)

When Main Assy is replaced, IC803 on new Main Assy should be replaced with the one on previous Main Assy. After replacement, Please refer to "Electrical Adjustments" for further adjustments.
Lamp Illumination Time keep the value as before.

OUT OF CIRCUIT BOARD

COIL

Ref. No.	Part No.	Description
⚠LF901	645 031 0034	UNIT, NOISE FILTER
L901	645 003 3834	CORE, FERRITE

MISCELLANEOUS

Ref. No.	Part No.	Description
⚠LP900	610 276 3010	COMPL, OPTICAL LAMP-M6SA
⚠A901	645 031 7552	UNIT, BALLAST
⚠FN901	645 033 1893	MOTOR, FAN DC 2.4W
⚠FN902	645 033 1893	MOTOR, FAN DC 2.4W
⚠FN903	645 034 7948	MOTOR, FAN DC 1.7W
⚠FN904	645 033 1879	MOTOR, FAN DC 2.2W
⚠FN905	645 034 8075	MOTOR, FAN DC 2.9W
⚠F901	423 022 2102	FUSE 250V 4A
⚠F901A	645 021 0983	HOLDER, FUSE
	645 023 3777	HOLDER, FUSE
R901	401 008 8607	CARBON 220K JA 1/2W
SP901	645 020 3985	SPEAKER, 8
SP902	645 020 3985	SPEAKER, 8
⚠SW901	645 033 1589	SWITCH, POWER 2P-2TX2
⚠SW902	645 024 8986	SWITCH, PUSH 2P-2TX2
⚠SW904	645 027 4756	SWITCH, REED
⚠SW905	645 026 5457	SWITCH, THERMAL
WA-AV	610 012 5926	TERMINAL
WK6SA	610 012 5926	TERMINAL
WK6SB	610 014 2886	TERMINAL
W16F&8F	645 026 7017	CORD, ID CONNECTOR
W16G&8G	645 029 6437	CORD, ID CONNECTOR
W18A&8K	645 023 1216	CORD, ID CONNECTOR
W18B&18D	645 033 5556	CORD, ID CONNECTOR
W18C&8L	645 035 2904	CORD, ID CONNECTOR
W18E&8R	645 032 5373	CORD, ID CONNECTOR
W23P&8P	645 014 5476	CORD, ID CONNECTOR
W23Q&8Q	645 033 5457	CORD, ID CONNECTOR
W23R&10R	610 277 8472	CORD, SHIELD 6P
W23S&10S	610 278 1274	CORD, SHIELD 7P
W6E&8C	645 026 7048	CORD, ID CONNECTOR
W6G&8D	645 023 1216	CORD, ID CONNECTOR

610 276 0279 ASSY,PWB,SUB POWER M6SA
1AA0B10C1980B

TRANSISTOR

Ref. No.	Part No.	Description
Q681	405 014 4509	TR 2SC2412K T146 R

INTEGRATED CIRCUIT

Ref. No.	Part No.	Description
IC681	409 368 4109	IC BA17809T

CAPACITOR

Ref. No.	Part No.	Description
CN6AH	645 008 3389	PLUG, 15P
C676	403 134 5802	ELECT 470U M 16V
C677	403 042 3006	ELECT 100U M 16V
C678	403 042 3006	ELECT 100U M 16V
C679	403 042 3006	ELECT 100U M 16V
C681	403 042 3006	ELECT 100U M 16V
C682	403 042 3006	ELECT 100U M 16V
C683	403 070 2606	CERAMIC 0.1U Z 50V
C684	403 070 2606	CERAMIC 0.1U Z 50V
C686	403 134 6007	ELECT 330U M 16V
C687	403 039 7307	ELECT 100U M 10V
C688	403 070 2606	CERAMIC 0.1U Z 50V
C689	403 208 6001	ELECT 2200U M 6.3V
C691	403 199 9708	ELECT 470U M 25V
C692	403 208 6001	ELECT 2200U M 6.3V

RESISTOR

Ref. No.	Part No.	Description
R680TM	401 027 2600	CARBON 5.6K JA 1/6W
R682	401 037 5608	MT-GLAZE 10K JA 1/10W
R683	401 037 5608	MT-GLAZE 10K JA 1/10W
R686	401 037 5608	MT-GLAZE 10K JA 1/10W
R687	401 037 5608	MT-GLAZE 10K JA 1/10W
R689	401 037 5608	MT-GLAZE 10K JA 1/10W
R691	401 065 5809	OXIDE-MT 15 JA 2W
R692	401 067 4206	OXIDE-MT 33 JA 2W
R696	401 258 4404	MT-GLAZE 5.6 JA 1/3W
R697	401 258 4404	MT-GLAZE 5.6 JA 1/3W

COIL

Ref. No.	Part No.	Description
L681	645 007 8002	INDUCTOR, 15U K
L682	645 007 7975	INDUCTOR, 100U K

DIODE

Ref. No.	Part No.	Description
D667	407 149 0807	DIODE 1SS355-TE-17
D681	407 149 0807	DIODE 1SS355-TE-17
D682	407 149 0807	DIODE 1SS355-TE-17
D683	407 149 0807	DIODE 1SS355-TE-17
D684	407 149 0807	DIODE 1SS355-TE-17
D686	407 149 0807	DIODE 1SS355-TE-17
D687	407 149 0807	DIODE 1SS355-TE-17

MISCELLANEOUS

Ref. No.	Part No.	Description
FB661	610 229 3531	CORE
FB662	610 229 3531	CORE
TH601	408 037 5508	THERMISTOR NTH11D5R0LC
TH602	408 037 5607	THERMISTOR NTH11D8R0LC
TH603	408 037 5508	THERMISTOR NTH11D5R0LC
K6E	645 006 0946	PLUG, 7P
K6F	645 005 8226	PLUG, 3P
K6G	645 005 8134	PLUG, 8P
K6H	645 006 0878	PLUG, 12P
K6J	645 005 8226	PLUG, 3P
K6K	645 005 8226	PLUG, 3P
K6L	645 005 8226	PLUG, 3P
K6M	645 005 8226	PLUG, 3P
K6N	645 005 8226	PLUG, 3P

610 276 0286 ASSY,PWB,A&M DRIVE M6SA
1AA0B10C1980C

INTEGRATED CIRCUIT

Ref. No.	Part No.	Description
IC1601	409 114 4803	IC LB1641
IC1611	409 114 4803	IC LB1641
IC1631	409 365 2900	IC BA178M12T
IC1651	409 365 3006	IC LA4285
IC1652	409 365 3006	IC LA4285

CAPACITOR

Ref. No.	Part No.	Description
C1601	403 194 4609	ELECT 470U M 16V
C1602	403 069 9500	CERAMIC 0.01U Z 50V
C1603	403 069 9500	CERAMIC 0.01U Z 50V
C1611	403 194 4609	ELECT 470U M 16V
C1612	403 069 9500	CERAMIC 0.01U Z 50V
C1613	403 069 9500	CERAMIC 0.01U Z 50V
C1621	403 199 9708	ELECT 470U M 25V
C1623	403 194 4609	ELECT 470U M 16V
C1624	403 069 9500	CERAMIC 0.01U Z 50V
C1631	403 070 2606	CERAMIC 0.1U Z 50V
C1632	403 070 2606	CERAMIC 0.1U Z 50V
C1633	403 233 0302	ELECT 100U M 16V
C1651	403 042 3006	ELECT 100U M 16V
	403 193 7809	ELECT 100U M 16V
C1652	403 163 8409	ELECT 47U M 16V
C1653	403 199 9708	ELECT 470U M 25V
C1654	403 192 5905	CERAMIC 0.1U K 25V
C1655	403 208 6407	ELECT 220U M 25V
C1656	403 199 9708	ELECT 470U M 25V
C1658	403 069 9500	CERAMIC 0.01U Z 50V
C1659	403 163 8409	ELECT 47U M 16V
C1661	403 042 3006	ELECT 100U M 16V
	403 193 7809	ELECT 100U M 16V
C1662	403 163 8409	ELECT 47U M 16V
C1663	403 199 9708	ELECT 470U M 25V
C1664	403 192 5905	CERAMIC 0.1U K 25V
C1665	403 208 6407	ELECT 220U M 25V
C1666	403 199 9708	ELECT 470U M 25V
C1668	403 069 9500	CERAMIC 0.01U Z 50V
C1669	403 163 8409	ELECT 47U M 16V
C1671	403 189 2405	ELECT 10U M 16V
C1672	403 199 9708	ELECT 470U M 25V

Ref. No.	Part No.	Description
RESISTOR		
R1601	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1602	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1603	401 037 5400	MT-GLAZE 1K JA 1/10W
R1604	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1605	401 067 2509	OXIDE-MT 3.3 JA 2W
R1611	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1612	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1613	401 037 5400	MT-GLAZE 1K JA 1/10W
R1614	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1621	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1631	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1651	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1652	401 038 7601	MT-GLAZE 560 JA 1/10W
R1653	401 110 8601	MT-GLAZE 1 JA 1/10W
R1656	401 180 8402	OXIDE-MT 0.47 JA 2W
R1657	401 037 5400	MT-GLAZE 1K JA 1/10W
R1658	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1661	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1662	401 038 7601	MT-GLAZE 560 JA 1/10W
R1663	401 110 8601	MT-GLAZE 1 JA 1/10W
R1665	401 067 2509	OXIDE-MT 3.3 JA 2W
R1666	401 180 8402	OXIDE-MT 0.47 JA 2W
R1667	401 037 5400	MT-GLAZE 1K JA 1/10W
R1668	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1671	401 037 9309	MT-GLAZE 18K JA 1/10W
R1672	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
COIL		
L1651	645 007 8118	INDUCTOR, 390U K
L1661	645 007 8118	INDUCTOR, 390U K
DIODE		
D1601	407 175 3407	ZD 02CZ5.1Y(TE85R)
D1602	407 149 0807	DIODE 1SS355-TE-17
D1611	407 175 3407	ZD 02CZ5.1Y(TE85R)
D1612	407 149 0807	DIODE 1SS355-TE-17
D1651	407 149 0807	DIODE 1SS355-TE-17
D1652	407 056 9207	ZENER DIODE RD5.1M-T2BB1
	407 175 3308	ZD 02CZ5.1X(TE85R)
	407 175 3407	ZD 02CZ5.1Y(TE85R)
	407 175 3506	ZD 02CZ5.1Z(TE85R)
D1653	407 149 0807	DIODE 1SS355-TE-17
D1654	407 149 0807	DIODE 1SS355-TE-17
D1655	407 056 9207	ZENER DIODE RD5.1M-T2BB1
	407 175 3308	ZD 02CZ5.1X(TE85R)
	407 175 3407	ZD 02CZ5.1Y(TE85R)
	407 175 3506	ZD 02CZ5.1Z(TE85R)
D1656	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
K16BB	645 008 3365	PLUG, 12P
K16FF	645 006 0915	PLUG, 4P
K16GG	645 006 0922	PLUG, 5P
K16R	645 005 8226	PLUG, 3P
K16S	645 004 2706	PLUG, 4P
K16T	645 006 0915	PLUG, 4P

610 277 0834 ASSY,PWB,MAIN M6YA
1AA0B10C20900

Ref. No.	Part No.	Description
TRANSISTOR		
Q1251	405 014 4509	TR 2SC2412K T146 R
Q1252	405 002 8304	TR 2SA1203-Y-TE12L
Q1253	405 014 4509	TR 2SC2412K T146 R
Q1301	405 014 4509	TR 2SC2412K T146 R
Q1451	405 014 4509	TR 2SC2412K T146 R
Q221	405 014 4509	TR 2SC2412K T146 R
Q231	405 047 4606	TR 2SC3650-TD
Q232	405 002 8304	TR 2SA1203-Y-TE12L
Q2501	405 002 8304	TR 2SA1203-Y-TE12L
Q2502	405 014 4509	TR 2SC2412K T146 R
Q2503	405 139 7706	TR IMZ1A-T108
Q2504	405 139 7706	TR IMZ1A-T108
Q2533	405 139 7706	TR IMZ1A-T108
Q2534	405 139 7706	TR IMZ1A-T108
Q2553	405 139 7706	TR IMZ1A-T108
Q2554	405 139 7706	TR IMZ1A-T108
Q2595	405 014 4509	TR 2SC2412K T146 R
Q291	405 014 4509	TR 2SC2412K T146 R
Q292	405 002 0308	TR 2SA1037K T146 R
Q451	405 014 4509	TR 2SC2412K T146 R
Q6801	405 014 4509	TR 2SC2412K T146 R
Q6802	405 014 4509	TR 2SC2412K T146 R
Q6803	405 014 4509	TR 2SC2412K T146 R
Q6804	405 014 4509	TR 2SC2412K T146 R
Q6806	405 014 4509	TR 2SC2412K T146 R
Q6807	405 014 4509	TR 2SC2412K T146 R
Q6808	405 014 4509	TR 2SC2412K T146 R
Q6812	405 014 4509	TR 2SC2412K T146 R
Q6813	405 002 0308	TR 2SA1037K T146 R
Q6814	405 014 4509	TR 2SC2412K T146 R
Q6816	405 014 4509	TR 2SC2412K T146 R
Q6817	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC1201	410 323 6700	IC EPM7064SLC44-5
IC1203	410 331 2206	IC HD74LVC04TELL
IC1251	409 318 0106	IC DS1020S-025
	409 434 1100	IC DS1021S-25
IC1252	409 404 2106	IC ICS1522M-ER
IC1253	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
IC1301	410 322 8002	IC UPD82170N7-002-H6
IC1302	409 416 6406	IC BA033FP-E2
IC1303	409 439 8906	IC TC7WH125FU
IC1451	409 211 7301	IC MC14053BFL
IC204	409 391 0109	IC CXA3026Q
IC205	410 320 0404	IC MC74LCX16374DT
	410 321 8508	IC TC74LCX16374AFT
	410 331 1803	IC HD74LVC16374AT
IC206	409 391 0109	IC CXA3026Q
IC207	410 320 0404	IC MC74LCX16374DT
	410 321 8508	IC TC74LCX16374AFT
	410 331 1803	IC HD74LVC16374AT
IC208	409 391 0109	IC CXA3026Q
IC209	410 320 0404	IC MC74LCX16374DT
	410 321 8508	IC TC74LCX16374AFT
	410 331 1803	IC HD74LVC16374AT
IC2201	410 318 2403	IC MSM54V16258ASL-45TSK
IC2202	410 318 2403	IC MSM54V16258ASL-45TSK
IC2203	409 428 7101	IC AV9155C
IC2204	409 428 7606	IC MPC948FA
IC2205	409 428 7101	IC AV9155C
IC2206	409 429 2808	IC TC74LCX04FT-(EL)
IC221	409 357 6602	IC LT1260CS
IC2211	409 416 6406	IC BA033FP-E2
IC231	409 142 2000	IC LA6358NM-TP-T1
IC2501	409 389 4805	IC LC4105V-TLM
IC2511	409 419 3709	IC MC10H351ML1
IC2521	409 389 4805	IC LC4105V-TLM
IC2541	409 389 4805	IC LC4105V-TLM
IC2561	409 343 0201	IC LT1206CS8
IC301	410 313 9605	IC UPD82169N7-001-H6
IC302	409 416 6406	IC BA033FP-E2
IC303	410 331 2206	IC HD74LVC04TELL
IC304	409 431 6009	IC MC74VHC14DT
IC3201	409 422 5400	IC MC74AC04DT
	409 423 7205	IC TC74AC04FT
IC3202	410 311 5708	IC MC74HCT244ADT
	410 331 2107	IC HD74HCT244TVELL
IC3203	409 416 6406	IC BA033FP-E2
IC3204	410 315 0907	IC UPD65943GJ-012-JEU
IC3206	409 344 1900	IC MN1382-Q-TX
IC3207	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
IC3301	409 440 2900	IC LC24106A-PC7
IC3302	410 325 4704	IC HD74LVC244AT
IC3303	409 416 6406	IC BA033FP-E2
IC3321	410 311 5708	IC MC74HCT244ADT
	410 331 2107	IC HD74HCT244TVELL

【 Electrical Parts List 】

Ref. No.	Part No.	Description
IC3331	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
IC3341	410 311 5708	IC MC74HCT244ADT
	410 331 2107	IC HD74HCT244TVELL
IC3361	410 315 5308	IC MC74ACT244DT
	410 331 2008	IC HD74ACT244TELL
IC401	409 419 2603	IC CXA2111R
IC451	409 241 9405	IC L88MS05T-TL
IC461	409 422 5400	IC MC74AC04DT
	409 423 7205	IC TC74AC04FT
IC471	409 326 3007	IC M62358FP
IC481	410 308 6404	IC MB40988PFQ-G-MSBND
IC501	409 419 2702	IC CXA2112R
IC5301	410 315 5100	IC HM5216326FP-10
	410 319 4000	IC UPD4811650GF-A10-9BT
IC531	409 419 2702	IC CXA2112R
IC5321	410 315 5100	IC HM5216326FP-10
	410 319 4000	IC UPD4811650GF-A10-9BT
IC5341	410 315 5100	IC HM5216326FP-10
	410 319 4000	IC UPD4811650GF-A10-9BT
IC5351	409 416 6406	IC BA033FP-E2
IC5352	410 315 5209	IC MC74VCX16244DT
	410 321 8300	IC TC74VCX16244FT
IC561	409 419 2702	IC CXA2112R
IC6301	410 319 4109	IC MB81G83222-010PQ-A
	410 320 3207	IC MSM54V25632A-10GSBK4
IC6321	410 319 4109	IC MB81G83222-010PQ-A
	410 320 3207	IC MSM54V25632A-10GSBK4
IC6341	410 319 4109	IC MB81G83222-010PQ-A
	410 320 3207	IC MSM54V25632A-10GSBK4
IC6351	409 416 6406	IC BA033FP-E2
IC6352	410 315 5209	IC MC74VCX16244DT
	410 321 8300	IC TC74VCX16244FT
IC801	410 331 6808	IC HD64F7045F28-B383
IC802	409 344 1900	IC MN1382-Q-TX
IC803	409 339 3605	IC 24LC16BT/SN-T
IC804	410 338 6801	IC M5M29JB160AVP-10-B390A
IC805	410 315 2802	IC QM5M51008BFPP
IC806	409 152 5602	IC TC7S32F-TE85L
IC807	409 422 5202	IC MC74ACT00DT
IC809	409 416 6406	IC BA033FP-E2
IC811	409 403 6204	IC M66010GP
IC831	410 311 5708	IC MC74HCT244ADT
	410 331 2107	IC HD74HCT244TVELL
IC832	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC833	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC851	410 319 8701	IC MC74ACT245DT
	410 321 8409	IC TC74ACT245FT
	410 331 1902	IC HD74ACT245TELL
IC852	410 319 8701	IC MC74ACT245DT
	410 321 8409	IC TC74ACT245FT
	410 331 1902	IC HD74ACT245TELL
IC853	410 319 8701	IC MC74ACT245DT
	410 321 8409	IC TC74ACT245FT
	410 331 1902	IC HD74ACT245TELL
IC854	410 319 8701	IC MC74ACT245DT
	410 321 8409	IC TC74ACT245FT
	410 331 1902	IC HD74ACT245TELL
IC855	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
CAPACITOR		
CDE	645 000 0409	TERMINAL
C1201	403 322 7809	ELECT 220U M 6. 3V
C1202	403 164 0204	CERAMIC 0. 1U Z 25V
C1203	403 164 0204	CERAMIC 0. 1U Z 25V
C1204	403 164 0204	CERAMIC 0. 1U Z 25V
C1206	403 164 0204	CERAMIC 0. 1U Z 25V
C1207	403 164 0204	CERAMIC 0. 1U Z 25V
C1208	403 164 0204	CERAMIC 0. 1U Z 25V
C1251	403 149 9208	CERAMIC 0. 01U Z 50V
C1252	403 164 0204	CERAMIC 0. 1U Z 25V
C1253	403 341 8801	ELECT 10U M 25V
C1254	403 215 0900	CERAMIC 390P J 50V
C1255	403 215 2904	CERAMIC 0. 022U K 25V
C1256	403 341 8801	ELECT 10U M 25V
C1257	403 164 0204	CERAMIC 0. 1U Z 25V
C1258	403 164 0204	CERAMIC 0. 1U Z 25V
C1259	403 149 9208	CERAMIC 0. 01U Z 50V
C1261	403 164 0204	CERAMIC 0. 1U Z 25V
C1262	403 113 3805	CERAMIC 1000P K 50V
C1263	403 164 0204	CERAMIC 0. 1U Z 25V
C1302	403 317 4509	ELECT 100U M 6. 3V
	403 342 4307	ELECT 100U M 6. 3V
C1303	403 164 0204	CERAMIC 0. 1U Z 25V
C1304	403 317 4509	ELECT 100U M 6. 3V
	403 342 4307	ELECT 100U M 6. 3V
C1306	403 164 0204	CERAMIC 0. 1U Z 25V
C1311	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1313	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1316	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1319	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1321	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1323	403 317 4509	ELECT 100U M 6. 3V
	403 342 4307	ELECT 100U M 6. 3V
C1324	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1327	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1329	403 164 0204	CERAMIC 0. 1U Z 25V
C1332	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1334	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1337	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1339	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1341	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1342	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1344	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1347	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1349	403 283 6309	CERAMIC 1U Z 10V
	403 336 5600	CERAMIC 1U Z 10V
C1350	403 322 7809	ELECT 220U M 6. 3V
C1351	403 164 0204	CERAMIC 0. 1U Z 25V
C1451	403 164 0204	CERAMIC 0. 1U Z 25V
C1452	403 164 0204	CERAMIC 0. 1U Z 25V
C1453	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V
C1454	403 164 0204	CERAMIC 0. 1U Z 25V
C1456	403 215 1006	CERAMIC 470P J 50V
C201	403 322 7809	ELECT 220U M 6. 3V
C202	403 164 0204	CERAMIC 0. 1U Z 25V
C203	403 322 7809	ELECT 220U M 6. 3V
C204	403 164 0204	CERAMIC 0. 1U Z 25V
C205	403 267 0804	NP-ELECT 47U M 6. 3V
C206	403 267 0804	NP-ELECT 47U M 6. 3V
C207	403 267 0804	NP-ELECT 47U M 6. 3V
C217	403 157 3106	CERAMIC 56P J 50V
C218	403 157 3106	CERAMIC 56P J 50V
C219	403 157 3106	CERAMIC 56P J 50V
C2201	403 164 0204	CERAMIC 0. 1U Z 25V
C2202	403 164 0204	CERAMIC 0. 1U Z 25V
C2203	403 164 0204	CERAMIC 0. 1U Z 25V
C2206	403 164 0204	CERAMIC 0. 1U Z 25V
C2207	403 164 0204	CERAMIC 0. 1U Z 25V
C2208	403 164 0204	CERAMIC 0. 1U Z 25V
C221	403 164 0204	CERAMIC 0. 1U Z 25V
C2211	403 322 7809	ELECT 220U M 6. 3V
C2212	403 322 7809	ELECT 220U M 6. 3V

【 Electrical Parts List 】

Ref. No.	Part No.	Description			
C2213	403 164 0204	CERAMIC	0.1U	Z	25V
C2214	403 164 0204	CERAMIC	0.1U	Z	25V
C2216	403 164 0204	CERAMIC	0.1U	Z	25V
C222	403 322 7809	ELECT	220U	M	6.3V
C2221	403 164 0204	CERAMIC	0.1U	Z	25V
C2222	403 164 0204	CERAMIC	0.1U	Z	25V
C2223	403 164 0204	CERAMIC	0.1U	Z	25V
C2224	403 164 0204	CERAMIC	0.1U	Z	25V
C2226	403 164 0204	CERAMIC	0.1U	Z	25V
C2227	403 164 0204	CERAMIC	0.1U	Z	25V
C2228	403 164 0204	CERAMIC	0.1U	Z	25V
C223	403 164 0204	CERAMIC	0.1U	Z	25V
C224	403 164 0204	CERAMIC	0.1U	Z	25V
C225	403 164 0204	CERAMIC	0.1U	Z	25V
C2251	403 164 0204	CERAMIC	0.1U	Z	25V
C2252	403 164 0204	CERAMIC	0.1U	Z	25V
C2253	403 164 0204	CERAMIC	0.1U	Z	25V
C2254	403 155 1609	CERAMIC	33P	J	50V
C226	403 164 0204	CERAMIC	0.1U	Z	25V
C227	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C231	403 164 0204	CERAMIC	0.1U	Z	25V
C232	403 164 0204	CERAMIC	0.1U	Z	25V
C233	403 164 0204	CERAMIC	0.1U	Z	25V
C234	403 164 0204	CERAMIC	0.1U	Z	25V
C235	403 164 0204	CERAMIC	0.1U	Z	25V
C236	403 164 0204	CERAMIC	0.1U	Z	25V
C241	403 208 1402	TA-SOLID	1U	M	25V
C242	403 164 0204	CERAMIC	0.1U	Z	25V
C243	403 164 0204	CERAMIC	0.1U	Z	25V
C244	403 164 0204	CERAMIC	0.1U	Z	25V
C245	403 322 7809	ELECT	220U	M	6.3V
C246	403 164 0204	CERAMIC	0.1U	Z	25V
C247	403 164 0204	CERAMIC	0.1U	Z	25V
C248	403 208 1402	TA-SOLID	1U	M	25V
C249	403 164 0204	CERAMIC	0.1U	Z	25V
C2501	403 280 1604	ELECT	220U	M	16V
C2502	403 164 0204	CERAMIC	0.1U	Z	25V
C2503	403 322 7809	ELECT	220U	M	6.3V
C2504	403 164 0204	CERAMIC	0.1U	Z	25V
C2506	403 164 0204	CERAMIC	0.1U	Z	25V
C2507	403 162 4709	ELECT	10U	M	16V
	403 335 0309	ELECT	10U	M	16V
C2511	403 164 0204	CERAMIC	0.1U	Z	25V
C2512	403 322 7809	ELECT	220U	M	6.3V
C2514	403 157 3106	CERAMIC	56P	J	50V
C2515	403 157 3106	CERAMIC	56P	J	50V
C2516	403 157 3106	CERAMIC	56P	J	50V
C2517	403 157 3106	CERAMIC	56P	J	50V
C252	403 322 7809	ELECT	220U	M	6.3V
C2521	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C2522	403 164 0204	CERAMIC	0.1U	Z	25V
C2523	403 322 7809	ELECT	220U	M	6.3V
C2524	403 164 0204	CERAMIC	0.1U	Z	25V
C2526	403 164 0204	CERAMIC	0.1U	Z	25V
C253	403 323 8805	CERAMIC	2.2U	Z	16V
	403 255 7907	CERAMIC	2.2U	Z	16V
	403 322 6109	CERAMIC	2.2U	Z	16V
C2534	403 157 3106	CERAMIC	56P	J	50V
C2535	403 157 3106	CERAMIC	56P	J	50V
C2536	403 157 3106	CERAMIC	56P	J	50V
C2537	403 157 3106	CERAMIC	56P	J	50V
C254	403 164 0204	CERAMIC	0.1U	Z	25V
C2541	403 280 1604	ELECT	220U	M	16V
C2542	403 164 0204	CERAMIC	0.1U	Z	25V
C2543	403 322 7809	ELECT	220U	M	6.3V
C2544	403 164 0204	CERAMIC	0.1U	Z	25V
C2546	403 164 0204	CERAMIC	0.1U	Z	25V
C255	403 164 0204	CERAMIC	0.1U	Z	25V
C2554	403 157 3106	CERAMIC	56P	J	50V
C2555	403 157 3106	CERAMIC	56P	J	50V
C2556	403 157 3106	CERAMIC	56P	J	50V
C2557	403 157 3106	CERAMIC	56P	J	50V
C256	403 164 0204	CERAMIC	0.1U	Z	25V
C2561	403 164 0204	CERAMIC	0.1U	Z	25V
C2562	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C2563	403 149 9208	CERAMIC	0.01U	Z	50V
C2564	403 157 3601	CERAMIC	100P	J	50V
C257	403 164 0204	CERAMIC	0.1U	Z	25V
C2577	403 164 0204	CERAMIC	0.1U	Z	25V
C2578	403 164 0204	CERAMIC	0.1U	Z	25V
C2579	403 162 4709	ELECT	10U	M	16V
	403 335 0309	ELECT	10U	M	16V
C2581	403 164 0204	CERAMIC	0.1U	Z	25V
C2582	403 164 0204	CERAMIC	0.1U	Z	25V
C2583	403 164 0204	CERAMIC	0.1U	Z	25V
C2584	403 162 4709	ELECT	10U	M	16V
	403 335 0309	ELECT	10U	M	16V
C2585	403 164 0204	CERAMIC	0.1U	Z	25V
C2586	403 164 0204	CERAMIC	0.1U	Z	25V
C2587	403 164 0204	CERAMIC	0.1U	Z	25V
C2588	403 162 4709	ELECT	10U	M	16V
	403 335 0309	ELECT	10U	M	16V
C2589	403 164 0204	CERAMIC	0.1U	Z	25V
C2591	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C261	403 208 1402	TA-SOLID	1U	M	25V
C262	403 164 0204	CERAMIC	0.1U	Z	25V
C263	403 164 0204	CERAMIC	0.1U	Z	25V
C264	403 164 0204	CERAMIC	0.1U	Z	25V
C265	403 322 7809	ELECT	220U	M	6.3V
C266	403 164 0204	CERAMIC	0.1U	Z	25V
C267	403 164 0204	CERAMIC	0.1U	Z	25V
C268	403 208 1402	TA-SOLID	1U	M	25V
C269	403 164 0204	CERAMIC	0.1U	Z	25V
C272	403 322 7809	ELECT	220U	M	6.3V
C273	403 323 8805	CERAMIC	2.2U	Z	16V
	403 255 7907	CERAMIC	2.2U	Z	16V
	403 322 6109	CERAMIC	2.2U	Z	16V
C274	403 164 0204	CERAMIC	0.1U	Z	25V
C275	403 164 0204	CERAMIC	0.1U	Z	25V
C276	403 164 0204	CERAMIC	0.1U	Z	25V
C277	403 164 0204	CERAMIC	0.1U	Z	25V
C281	403 208 1402	TA-SOLID	1U	M	25V
C282	403 164 0204	CERAMIC	0.1U	Z	25V
C283	403 164 0204	CERAMIC	0.1U	Z	25V
C284	403 164 0204	CERAMIC	0.1U	Z	25V
C285	403 322 7809	ELECT	220U	M	6.3V
C286	403 164 0204	CERAMIC	0.1U	Z	25V
C287	403 164 0204	CERAMIC	0.1U	Z	25V
C288	403 208 1402	TA-SOLID	1U	M	25V
C289	403 164 0204	CERAMIC	0.1U	Z	25V
C292	403 322 7809	ELECT	220U	M	6.3V
C293	403 323 8805	CERAMIC	2.2U	Z	16V
	403 255 7907	CERAMIC	2.2U	Z	16V
	403 322 6109	CERAMIC	2.2U	Z	16V
C294	403 164 0204	CERAMIC	0.1U	Z	25V
C295	403 164 0204	CERAMIC	0.1U	Z	25V
C296	403 164 0204	CERAMIC	0.1U	Z	25V
C297	403 164 0204	CERAMIC	0.1U	Z	25V
C301	403 317 4509	ELECT	100U	M	6.3V
	403 342 4307	ELECT	100U	M	6.3V
C302	403 164 0204	CERAMIC	0.1U	Z	25V
C303	403 317 4509	ELECT	100U	M	6.3V
	403 342 4307	ELECT	100U	M	6.3V
C304	403 164 0204	CERAMIC	0.1U	Z	25V
C306	403 157 7203	CERAMIC	3900P	K	50V
C307	403 323 1301	CERAMIC	0.47U	Z	10V
C308	403 164 0204	CERAMIC	0.1U	Z	25V
C309	403 164 0204	CERAMIC	0.1U	Z	25V
C311	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C316	403 149 9208	CERAMIC	0.01U	Z	50V
C3201	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C3202	403 149 9208	CERAMIC	0.01U	Z	50V
C3203	403 155 1609	CERAMIC	33P	J	50V
C3204	403 155 1609	CERAMIC	33P	J	50V
C3206	403 164 0204	CERAMIC	0.1U	Z	25V
C3207	403 164 0204	CERAMIC	0.1U	Z	25V

【 Electrical Parts List 】

Ref. No.	Part No.	Description			
C3208	403 322 7809	ELECT	220U	M	6.3V
C321	403 149 9208	CERAMIC	0.01U	Z	50V
C3211	403 164 0204	CERAMIC	0.1U	Z	25V
C3212	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C3213	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C3214	403 164 0204	CERAMIC	0.1U	Z	25V
C3216	403 164 0204	CERAMIC	0.1U	Z	25V
C3217	403 164 0204	CERAMIC	0.1U	Z	25V
C326	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C328	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C3301	403 322 7809	ELECT	220U	M	6.3V
C3302	403 164 0204	CERAMIC	0.1U	Z	25V
C3303	403 164 0204	CERAMIC	0.1U	Z	25V
C3304	403 164 0204	CERAMIC	0.1U	Z	25V
C3305	403 164 0204	CERAMIC	0.1U	Z	25V
C3306	403 164 0204	CERAMIC	0.1U	Z	25V
C3307	403 322 7809	ELECT	220U	M	6.3V
C3308	403 322 7809	ELECT	220U	M	6.3V
C3309	403 164 0204	CERAMIC	0.1U	Z	25V
C331	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C3321	403 164 0204	CERAMIC	0.1U	Z	25V
C333	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C3331	403 164 0204	CERAMIC	0.1U	Z	25V
C3341	403 164 0204	CERAMIC	0.1U	Z	25V
C335	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C336	403 164 0204	CERAMIC	0.1U	Z	25V
C3361	403 164 0204	CERAMIC	0.1U	Z	25V
C338	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C341	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C342	403 157 1904	CERAMIC	10P	D	50V
C343	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C344	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C347	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C349	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C351	403 157 3106	CERAMIC	56P	J	50V
C352	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C353	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C356	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C358	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C361	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C362	403 317 4509	ELECT	100U	M	6.3V
	403 342 4307	ELECT	100U	M	6.3V
C401	403 164 0204	CERAMIC	0.1U	Z	25V
C402	403 149 9208	CERAMIC	0.01U	Z	50V
C403	403 149 9208	CERAMIC	0.01U	Z	50V
C404	403 149 9208	CERAMIC	0.01U	Z	50V
C405	403 149 9208	CERAMIC	0.01U	Z	50V
C406	403 149 9208	CERAMIC	0.01U	Z	50V
C407	403 149 9208	CERAMIC	0.01U	Z	50V
C408	403 164 0204	CERAMIC	0.1U	Z	25V
C409	403 322 7809	ELECT	220U	M	6.3V
C411	403 164 0204	CERAMIC	0.1U	Z	25V
C412	403 322 7809	ELECT	220U	M	6.3V
C413	403 164 0204	CERAMIC	0.1U	Z	25V
C414	403 149 9208	CERAMIC	0.01U	Z	50V
C415	403 149 9208	CERAMIC	0.01U	Z	50V
C416	403 149 9208	CERAMIC	0.01U	Z	50V
C417	403 164 0204	CERAMIC	0.1U	Z	25V
C418	403 164 0204	CERAMIC	0.1U	Z	25V
C421	403 298 9609	CERAMIC	0.1U	K	16V
	403 325 3303	CERAMIC	0.1U	K	16V
C422	403 298 9609	CERAMIC	0.1U	K	16V
	403 325 3303	CERAMIC	0.1U	K	16V
C423	403 298 9609	CERAMIC	0.1U	K	16V
	403 325 3303	CERAMIC	0.1U	K	16V
C424	403 164 0204	CERAMIC	0.1U	Z	25V
C425	403 322 7809	ELECT	220U	M	6.3V
C426	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C427	403 149 9208	CERAMIC	0.01U	Z	50V
C451	403 322 7809	ELECT	220U	M	6.3V
C452	403 322 7809	ELECT	220U	M	6.3V
C453TM	403 283 6309	CERAMIC	1U	Z	10V
	403 336 5600	CERAMIC	1U	Z	10V
C481	403 164 0204	CERAMIC	0.1U	Z	25V
C482	403 322 7809	ELECT	220U	M	6.3V
C483	403 164 0204	CERAMIC	0.1U	Z	25V
C484	403 164 0204	CERAMIC	0.1U	Z	25V
C486	403 208 1402	TA-SOLID	1U	M	25V
C487	403 164 0204	CERAMIC	0.1U	Z	25V
C501	403 164 0204	CERAMIC	0.1U	Z	25V
C502	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C503	403 149 9208	CERAMIC	0.01U	Z	50V
C504	403 149 9208	CERAMIC	0.01U	Z	50V
C505	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C506	403 164 0204	CERAMIC	0.1U	Z	25V
C507	403 164 0204	CERAMIC	0.1U	Z	25V
C510	403 145 9905	CERAMIC	22P	J	50V
C512	403 164 0204	CERAMIC	0.1U	Z	25V
C513	403 317 4509	ELECT	100U	M	6.3V
	403 342 4307	ELECT	100U	M	6.3V
C5301	403 164 0204	CERAMIC	0.1U	Z	25V
C5302	403 164 0204	CERAMIC	0.1U	Z	25V
C5303	403 164 0204	CERAMIC	0.1U	Z	25V
C5304	403 164 0204	CERAMIC	0.1U	Z	25V
C5306	403 164 0204	CERAMIC	0.1U	Z	25V
C5307	403 164 0204	CERAMIC	0.1U	Z	25V
C5308	403 164 0204	CERAMIC	0.1U	Z	25V
C5309	403 164 0204	CERAMIC	0.1U	Z	25V
C531	403 164 0204	CERAMIC	0.1U	Z	25V
C5311	403 164 0204	CERAMIC	0.1U	Z	25V
C5312	403 164 0204	CERAMIC	0.1U	Z	25V
C5313	403 322 7809	ELECT	220U	M	6.3V
C532	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C5321	403 164 0204	CERAMIC	0.1U	Z	25V
C5322	403 164 0204	CERAMIC	0.1U	Z	25V
C5323	403 164 0204	CERAMIC	0.1U	Z	25V
C5324	403 164 0204	CERAMIC	0.1U	Z	25V
C5326	403 164 0204	CERAMIC	0.1U	Z	25V
C5327	403 164 0204	CERAMIC	0.1U	Z	25V
C5328	403 164 0204	CERAMIC	0.1U	Z	25V
C5329	403 164 0204	CERAMIC	0.1U	Z	25V
C533	403 149 9208	CERAMIC	0.01U	Z	50V
C5331	403 164 0204	CERAMIC	0.1U	Z	25V
C5332	403 164 0204	CERAMIC	0.1U	Z	25V
C5333	403 322 7809	ELECT	220U	M	6.3V
C534	403 149 9208	CERAMIC	0.01U	Z	50V
C5341	403 164 0204	CERAMIC	0.1U	Z	25V
C5342	403 164 0204	CERAMIC	0.1U	Z	25V
C5343	403 164 0204	CERAMIC	0.1U	Z	25V
C5344	403 164 0204	CERAMIC	0.1U	Z	25V
C5346	403 164 0204	CERAMIC	0.1U	Z	25V
C5347	403 164 0204	CERAMIC	0.1U	Z	25V
C5348	403 164 0204	CERAMIC	0.1U	Z	25V
C5349	403 164 0204	CERAMIC	0.1U	Z	25V
C535	403 229 3508	ELECT	100U	M	16V
	403 335 0408	ELECT	100U	M	16V
C5351	403 164 0204	CERAMIC	0.1U	Z	25V
C5352	403 322 7809	ELECT	220U	M	6.3V
C5353	403 322 7809	ELECT	220U	M	6.3V
C5354	403 164 0204	CERAMIC	0.1U	Z	25V

【 Electrical Parts List 】

Ref. No.	Part No.	Description		
C5356	403 322 7809	ELECT	220U M	6.3V
C5357	403 164 0204	CERAMIC	0.1U Z	25V
C5358	403 164 0204	CERAMIC	0.1U Z	25V
C5359	403 164 0204	CERAMIC	0.1U Z	25V
C536	403 164 0204	CERAMIC	0.1U Z	25V
C5361	403 164 0204	CERAMIC	0.1U Z	25V
C537	403 164 0204	CERAMIC	0.1U Z	25V
C540	403 145 9905	CERAMIC	22P J	50V
C542	403 164 0204	CERAMIC	0.1U Z	25V
C543	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
C561	403 164 0204	CERAMIC	0.1U Z	25V
C562	403 229 3508	ELECT	100U M	16V
	403 335 0408	ELECT	100U M	16V
C563	403 149 9208	CERAMIC	0.01U Z	50V
C564	403 149 9208	CERAMIC	0.01U Z	50V
C565	403 229 3508	ELECT	100U M	16V
	403 335 0408	ELECT	100U M	16V
C566	403 164 0204	CERAMIC	0.1U Z	25V
C567	403 164 0204	CERAMIC	0.1U Z	25V
C570	403 145 9905	CERAMIC	22P J	50V
C572	403 164 0204	CERAMIC	0.1U Z	25V
C573	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
C6241	403 164 0204	CERAMIC	0.1U Z	25V
C6242	403 164 0204	CERAMIC	0.1U Z	25V
C6243	403 164 0204	CERAMIC	0.1U Z	25V
C6244	403 164 0204	CERAMIC	0.1U Z	25V
C6261	403 164 0204	CERAMIC	0.1U Z	25V
C6262	403 164 0204	CERAMIC	0.1U Z	25V
C6263	403 164 0204	CERAMIC	0.1U Z	25V
C6264	403 164 0204	CERAMIC	0.1U Z	25V
C6281	403 164 0204	CERAMIC	0.1U Z	25V
C6282	403 164 0204	CERAMIC	0.1U Z	25V
C6283	403 164 0204	CERAMIC	0.1U Z	25V
C6284	403 164 0204	CERAMIC	0.1U Z	25V
C6301	403 164 0204	CERAMIC	0.1U Z	25V
C6302	403 164 0204	CERAMIC	0.1U Z	25V
C6303	403 164 0204	CERAMIC	0.1U Z	25V
C6304	403 164 0204	CERAMIC	0.1U Z	25V
C6306	403 164 0204	CERAMIC	0.1U Z	25V
C6307	403 164 0204	CERAMIC	0.1U Z	25V
C6308	403 164 0204	CERAMIC	0.1U Z	25V
C6309	403 164 0204	CERAMIC	0.1U Z	25V
C6311	403 164 0204	CERAMIC	0.1U Z	25V
C6312	403 164 0204	CERAMIC	0.1U Z	25V
C6313	403 322 7809	ELECT	220U M	6.3V
C6321	403 164 0204	CERAMIC	0.1U Z	25V
C6322	403 164 0204	CERAMIC	0.1U Z	25V
C6323	403 164 0204	CERAMIC	0.1U Z	25V
C6324	403 164 0204	CERAMIC	0.1U Z	25V
C6326	403 164 0204	CERAMIC	0.1U Z	25V
C6327	403 164 0204	CERAMIC	0.1U Z	25V
C6328	403 164 0204	CERAMIC	0.1U Z	25V
C6329	403 164 0204	CERAMIC	0.1U Z	25V
C6331	403 164 0204	CERAMIC	0.1U Z	25V
C6332	403 164 0204	CERAMIC	0.1U Z	25V
C6333	403 322 7809	ELECT	220U M	6.3V
C6341	403 164 0204	CERAMIC	0.1U Z	25V
C6342	403 164 0204	CERAMIC	0.1U Z	25V
C6343	403 164 0204	CERAMIC	0.1U Z	25V
C6344	403 164 0204	CERAMIC	0.1U Z	25V
C6346	403 164 0204	CERAMIC	0.1U Z	25V
C6347	403 164 0204	CERAMIC	0.1U Z	25V
C6348	403 164 0204	CERAMIC	0.1U Z	25V
C6349	403 164 0204	CERAMIC	0.1U Z	25V
C6351	403 164 0204	CERAMIC	0.1U Z	25V
C6352	403 164 0204	CERAMIC	0.1U Z	25V
C6353	403 322 7809	ELECT	220U M	6.3V
C6354	403 322 7809	ELECT	220U M	6.3V
C6356	403 164 0204	CERAMIC	0.1U Z	25V
C6357	403 322 7809	ELECT	220U M	6.3V
C6358	403 164 0204	CERAMIC	0.1U Z	25V
C6359	403 164 0204	CERAMIC	0.1U Z	25V
C6361	403 164 0204	CERAMIC	0.1U Z	25V
C6362	403 164 0204	CERAMIC	0.1U Z	25V
C6801	403 283 6309	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1U Z	10V
C6803	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
C801	403 164 0204	CERAMIC	0.1U Z	25V
C802	403 164 0204	CERAMIC	0.1U Z	25V
C803	403 164 0204	CERAMIC	0.1U Z	25V
C804	403 164 0204	CERAMIC	0.1U Z	25V
C805	403 175 3300	ELECT	47U M	16V
C806	403 164 0204	CERAMIC	0.1U Z	25V
C807	403 322 7809	ELECT	220U M	6.3V
C808	403 155 1609	CERAMIC	33P J	50V
C809	403 155 1609	CERAMIC	33P J	50V
C811	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
C812	403 215 1006	CERAMIC	470P J	50V
C813	403 164 0204	CERAMIC	0.1U Z	25V
C814	403 283 6309	CERAMIC	1U Z	10V
	403 336 5600	CERAMIC	1U Z	10V
C816	403 164 0204	CERAMIC	0.1U Z	25V
C817	403 322 7809	ELECT	220U M	6.3V
C818	403 164 0204	CERAMIC	0.1U Z	25V
C819	403 322 7809	ELECT	220U M	6.3V
C821	403 164 0204	CERAMIC	0.1U Z	25V
C822	403 322 7809	ELECT	220U M	6.3V
C823	403 164 0204	CERAMIC	0.1U Z	25V
C824	403 164 0204	CERAMIC	0.1U Z	25V
C825	403 164 0204	CERAMIC	0.1U Z	25V
C826	403 164 0204	CERAMIC	0.1U Z	25V
C827	403 164 0204	CERAMIC	0.1U Z	25V
C828	403 164 0204	CERAMIC	0.1U Z	25V
C831	403 164 0204	CERAMIC	0.1U Z	25V
C832	403 164 0204	CERAMIC	0.1U Z	25V
C836	403 164 0204	CERAMIC	0.1U Z	25V
C837	403 164 0204	CERAMIC	0.1U Z	25V
C838	403 164 0204	CERAMIC	0.1U Z	25V
C839	403 164 0204	CERAMIC	0.1U Z	25V
C851	403 164 0204	CERAMIC	0.1U Z	25V
C852	403 164 0204	CERAMIC	0.1U Z	25V
C853	403 164 0204	CERAMIC	0.1U Z	25V
C854	403 164 0204	CERAMIC	0.1U Z	25V
C855	403 164 0204	CERAMIC	0.1U Z	25V
C896	403 149 9208	CERAMIC	0.01U Z	50V
C897	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
C898	403 149 9208	CERAMIC	0.01U Z	50V
C899	403 317 4509	ELECT	100U M	6.3V
	403 342 4307	ELECT	100U M	6.3V
RESISTOR				
RB1252	645 028 3215	R-NETWORK	100X4	1/16W
RB2501	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB2502	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB2521	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB2522	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB2541	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB2542	645 028 5981	R-NETWORK	10X4	1/16W
	645 028 5998	R-NETWORK	10X4	1/16W
RB301	645 027 1519	R-NETWORK	0X4	1/16W
RB302	645 027 1519	R-NETWORK	0X4	1/16W
RB303	645 027 1519	R-NETWORK	0X4	1/16W
RB304	645 027 1519	R-NETWORK	0X4	1/16W
RB305	645 027 1519	R-NETWORK	0X4	1/16W
RB306	645 027 1519	R-NETWORK	0X4	1/16W
RB3203	645 028 3215	R-NETWORK	100X4	1/16W
RB3204	645 028 3215	R-NETWORK	100X4	1/16W
RB3206	645 028 3215	R-NETWORK	100X4	1/16W
RB3207	645 028 3215	R-NETWORK	100X4	1/16W
RB3208	645 028 3215	R-NETWORK	100X4	1/16W
RB501	645 024 7477	R-NETWORK	0X4	1/16W
	645 027 1519	R-NETWORK	0X4	1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
RB502	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB5301	645 028 3215	R-NETWORK 100X4 1/16W
RB5302	645 028 3215	R-NETWORK 100X4 1/16W
RB5303	645 028 3215	R-NETWORK 100X4 1/16W
RB5304	645 028 3215	R-NETWORK 100X4 1/16W
RB5306	645 028 3215	R-NETWORK 100X4 1/16W
RB5307	645 028 3215	R-NETWORK 100X4 1/16W
RB5308	645 028 3215	R-NETWORK 100X4 1/16W
RB5309	645 028 3215	R-NETWORK 100X4 1/16W
RB531	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB532	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB5321	645 028 3215	R-NETWORK 100X4 1/16W
RB5322	645 028 3215	R-NETWORK 100X4 1/16W
RB5323	645 028 3215	R-NETWORK 100X4 1/16W
RB5324	645 028 3215	R-NETWORK 100X4 1/16W
RB5326	645 028 3215	R-NETWORK 100X4 1/16W
RB5327	645 028 3215	R-NETWORK 100X4 1/16W
RB5328	645 028 3215	R-NETWORK 100X4 1/16W
RB5329	645 028 3215	R-NETWORK 100X4 1/16W
RB5341	645 028 3215	R-NETWORK 100X4 1/16W
RB5342	645 028 3215	R-NETWORK 100X4 1/16W
RB5343	645 028 3215	R-NETWORK 100X4 1/16W
RB5344	645 028 3215	R-NETWORK 100X4 1/16W
RB5346	645 028 3215	R-NETWORK 100X4 1/16W
RB5347	645 028 3215	R-NETWORK 100X4 1/16W
RB5348	645 028 3215	R-NETWORK 100X4 1/16W
RB5349	645 028 3215	R-NETWORK 100X4 1/16W
RB561	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB562	645 024 7477	R-NETWORK 0X4 1/16W
	645 027 1519	R-NETWORK 0X4 1/16W
RB6301	645 028 3215	R-NETWORK 100X4 1/16W
RB6302	645 028 3215	R-NETWORK 100X4 1/16W
RB6303	645 028 3215	R-NETWORK 100X4 1/16W
RB6304	645 028 3215	R-NETWORK 100X4 1/16W
RB6306	645 028 3215	R-NETWORK 100X4 1/16W
RB6307	645 028 3215	R-NETWORK 100X4 1/16W
RB6308	645 028 3215	R-NETWORK 100X4 1/16W
RB6309	645 028 3215	R-NETWORK 100X4 1/16W
RB6321	645 028 3215	R-NETWORK 100X4 1/16W
RB6322	645 028 3215	R-NETWORK 100X4 1/16W
RB6323	645 028 3215	R-NETWORK 100X4 1/16W
RB6324	645 028 3215	R-NETWORK 100X4 1/16W
RB6326	645 028 3215	R-NETWORK 100X4 1/16W
RB6327	645 028 3215	R-NETWORK 100X4 1/16W
RB6328	645 028 3215	R-NETWORK 100X4 1/16W
RB6329	645 028 3215	R-NETWORK 100X4 1/16W
RB6341	645 028 3215	R-NETWORK 100X4 1/16W
RB6342	645 028 3215	R-NETWORK 100X4 1/16W
RB6343	645 028 3215	R-NETWORK 100X4 1/16W
RB6344	645 028 3215	R-NETWORK 100X4 1/16W
RB6346	645 028 3215	R-NETWORK 100X4 1/16W
RB6347	645 028 3215	R-NETWORK 100X4 1/16W
RB6348	645 028 3215	R-NETWORK 100X4 1/16W
RB6349	645 028 3215	R-NETWORK 100X4 1/16W
RB811	645 028 3215	R-NETWORK 100X4 1/16W
RB812	645 026 8038	R-NETWORK 22KX4 1/16W
RB813	645 026 8038	R-NETWORK 22KX4 1/16W
RB814	645 026 8038	R-NETWORK 22KX4 1/16W
RB816	645 026 8038	R-NETWORK 22KX4 1/16W
RB817	645 026 8038	R-NETWORK 22KX4 1/16W
RB818	645 028 3215	R-NETWORK 100X4 1/16W
RB831	645 026 8038	R-NETWORK 22KX4 1/16W
RB832	645 026 8038	R-NETWORK 22KX4 1/16W
RB851	645 031 3370	R-NETWORK 330X4 1/16W
RB852	645 031 3387	R-NETWORK 680X4 1/16W
RB853	645 031 3370	R-NETWORK 330X4 1/16W
RB854	645 031 3387	R-NETWORK 680X4 1/16W
RB855	645 031 3370	R-NETWORK 330X4 1/16W
RB856	645 031 3387	R-NETWORK 680X4 1/16W
RB857	645 031 3370	R-NETWORK 330X4 1/16W
RB858	645 031 3387	R-NETWORK 680X4 1/16W
RB861	645 031 3370	R-NETWORK 330X4 1/16W
RB862	645 031 3387	R-NETWORK 680X4 1/16W
RB863	645 031 3370	R-NETWORK 330X4 1/16W
RB864	645 031 3387	R-NETWORK 680X4 1/16W
RB865	645 031 3370	R-NETWORK 330X4 1/16W
RB866	645 031 3387	R-NETWORK 680X4 1/16W
RB867	645 031 3370	R-NETWORK 330X4 1/16W
RB868	645 031 3387	R-NETWORK 680X4 1/16W
RDONE	645 000 0409	TERMINAL
RFDONE	645 000 0409	TERMINAL
RHSYNC	645 000 0409	TERMINAL
ROT	645 000 0409	TERMINAL
RVSYNC	645 000 0409	TERMINAL
R1201	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1202	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1204	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1206	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1209	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1211	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1212	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1213	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1214	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1215	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1216	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1217	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1220	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1221	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1222	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1223	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1224	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1226	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1228	401 105 1006	MT-GLAZE 1. 2K JA 1/16W
R1229	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1231	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1232	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1233	401 105 0504	MT-GLAZE 1K JA 1/16W
R1234	401 105 0504	MT-GLAZE 1K JA 1/16W
R1236	401 105 0504	MT-GLAZE 1K JA 1/16W
R1248	401 105 0306	MT-GLAZE 10 JA 1/16W
R1249	401 105 0306	MT-GLAZE 10 JA 1/16W
R1250	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1260	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1265	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1270	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1274	401 035 7505	MT-GLAZE 15 JA 1/8W
R1276	401 105 3901	MT-GLAZE 33 JA 1/16W
R1277	401 105 8203	MT-GLAZE 68K JA 1/16W
R1281	401 105 7305	MT-GLAZE 820 JA 1/16W
R1282	401 105 4601	MT-GLAZE 3. 9K JA 1/16W
R1283	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1284	401 105 0603	MT-GLAZE 10K JA 1/16W
R1286	401 105 4007	MT-GLAZE 330 JA 1/16W
R1287	401 105 0504	MT-GLAZE 1K JA 1/16W
R1288	401 105 5202	MT-GLAZE 470 JA 1/16W
R1289	401 105 0504	MT-GLAZE 1K JA 1/16W
R1291	401 105 5400	MT-GLAZE 47K JA 1/16W
R1292	401 105 0504	MT-GLAZE 1K JA 1/16W
R1293	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
R1298	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1299	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1304	401 225 7605	MT-GLAZE 1 JA 1W
R1309	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1311	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1312	401 105 5905	MT-GLAZE 560 JA 1/16W
R1313	401 105 7305	MT-GLAZE 820 JA 1/16W
R1314	401 105 4106	MT-GLAZE 3. 3K JA 1/16W
R1316	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1317	401 105 0603	MT-GLAZE 10K JA 1/16W
R1318	401 105 7305	MT-GLAZE 820 JA 1/16W
R1319	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1321	401 105 5905	MT-GLAZE 560 JA 1/16W
R1322	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1324	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1327	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1328	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R1329	401 105 7305	MT-GLAZE 820 JA 1/16W
R1331	401 105 7305	MT-GLAZE 820 JA 1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R1332	401 105 5905	MT-GLAZE 560 JA 1/16W
R1333	401 105 5905	MT-GLAZE 560 JA 1/16W
R1334	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1346	401 105 0603	MT-GLAZE 10K JA 1/16W
R1347	401 105 0603	MT-GLAZE 10K JA 1/16W
R1348	401 105 0603	MT-GLAZE 10K JA 1/16W
R1349	401 105 0603	MT-GLAZE 10K JA 1/16W
R1351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1352	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1354	401 105 0603	MT-GLAZE 10K JA 1/16W
R1356	401 105 0603	MT-GLAZE 10K JA 1/16W
R1357	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1358	401 105 0405	MT-GLAZE 100 JA 1/16W
R1360	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1365	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1373	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1376	401 105 0603	MT-GLAZE 10K JA 1/16W
R1377	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1378	401 105 0603	MT-GLAZE 10K JA 1/16W
R1379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1380	401 105 0603	MT-GLAZE 10K JA 1/16W
R1381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1382	401 105 0405	MT-GLAZE 100 JA 1/16W
R1383	401 105 2904	MT-GLAZE 22K JA 1/16W
R1384	401 105 0603	MT-GLAZE 10K JA 1/16W
R1385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1386	401 105 0405	MT-GLAZE 100 JA 1/16W
R1387	401 105 0405	MT-GLAZE 100 JA 1/16W
R1451	401 105 0603	MT-GLAZE 10K JA 1/16W
R1452	401 105 4205	MT-GLAZE 33K JA 1/16W
R1456	401 105 0405	MT-GLAZE 100 JA 1/16W
R1461	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1462	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1463	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1464	401 105 0504	MT-GLAZE 1K JA 1/16W
R1465	401 105 0603	MT-GLAZE 10K JA 1/16W
R1466	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R201	401 105 1907	MT-GLAZE 180 JA 1/16W
R202	401 105 1907	MT-GLAZE 180 JA 1/16W
R203	401 105 1907	MT-GLAZE 180 JA 1/16W
R204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R205	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R206	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R207	401 105 3109	MT-GLAZE 27 JA 1/16W
R208	401 105 3109	MT-GLAZE 27 JA 1/16W
R209	401 105 3109	MT-GLAZE 27 JA 1/16W
R217	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R218	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R219	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R2201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2206	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2211	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2212	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2221	401 105 0603	MT-GLAZE 10K JA 1/16W
R2224	401 105 0603	MT-GLAZE 10K JA 1/16W
R2226	401 105 0603	MT-GLAZE 10K JA 1/16W
R2229	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R223	401 105 0504	MT-GLAZE 1K JA 1/16W
R2231	401 105 0603	MT-GLAZE 10K JA 1/16W
R2232	401 105 0603	MT-GLAZE 10K JA 1/16W
R2233	401 105 0603	MT-GLAZE 10K JA 1/16W
R2234	401 105 0603	MT-GLAZE 10K JA 1/16W
R2236	401 105 0603	MT-GLAZE 10K JA 1/16W
R2237	401 105 0306	MT-GLAZE 10 JA 1/16W
R2238	401 105 0306	MT-GLAZE 10 JA 1/16W
R2239	401 105 0306	MT-GLAZE 10 JA 1/16W
R224	401 105 0504	MT-GLAZE 1K JA 1/16W
R2241	401 105 0306	MT-GLAZE 10 JA 1/16W
R2242	401 105 0306	MT-GLAZE 10 JA 1/16W
R2243	401 105 0306	MT-GLAZE 10 JA 1/16W
R2244	401 105 0306	MT-GLAZE 10 JA 1/16W
R2245	401 105 0306	MT-GLAZE 10 JA 1/16W
R2248	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R225	401 105 0504	MT-GLAZE 1K JA 1/16W
R2251	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2256	401 105 0603	MT-GLAZE 10K JA 1/16W
R2257	401 105 0603	MT-GLAZE 10K JA 1/16W
R2258	401 105 0603	MT-GLAZE 10K JA 1/16W
R226	401 105 0504	MT-GLAZE 1K JA 1/16W
R2262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2264	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R2266	401 105 0306	MT-GLAZE 10 JA 1/16W
R2267	401 105 0306	MT-GLAZE 10 JA 1/16W
R2269	401 112 8005	MT-GLAZE 5.6 JA 1/16W
R227	401 105 0504	MT-GLAZE 1K JA 1/16W
R228	401 105 0504	MT-GLAZE 1K JA 1/16W
R229	401 105 0504	MT-GLAZE 1K JA 1/16W
R230	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R231	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R232	401 105 7206	MT-GLAZE 82 JA 1/16W
R233	401 105 7206	MT-GLAZE 82 JA 1/16W
R234	401 105 7206	MT-GLAZE 82 JA 1/16W
R235	401 113 6802	MT-GLAZE 11K JA 1/16W
R236	401 105 2409	MT-GLAZE 2K JA 1/16W
R237	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R242	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R243	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R244	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R247	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R248	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2501	401 105 2706	MT-GLAZE 220 JA 1/16W
R2502	401 105 2706	MT-GLAZE 220 JA 1/16W
R2503	401 105 0405	MT-GLAZE 100 JA 1/16W
R2504	401 105 0405	MT-GLAZE 100 JA 1/16W
R2505	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2506	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2507	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2508	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2511	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2513	401 105 4007	MT-GLAZE 330 JA 1/16W
R2515	401 105 4007	MT-GLAZE 330 JA 1/16W
R2516	401 105 0603	MT-GLAZE 10K JA 1/16W
R2517	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2518	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2519	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2522	401 105 4007	MT-GLAZE 330 JA 1/16W
R2524	401 105 4007	MT-GLAZE 330 JA 1/16W
R2527	401 105 4007	MT-GLAZE 330 JA 1/16W
R2529	401 105 4007	MT-GLAZE 330 JA 1/16W
R2531	401 105 2706	MT-GLAZE 220 JA 1/16W
R2532	401 105 2706	MT-GLAZE 220 JA 1/16W
R2533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2534	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2536	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2551	401 105 2706	MT-GLAZE 220 JA 1/16W
R2552	401 105 2706	MT-GLAZE 220 JA 1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R2553	401 105 0405	MT-GLAZE 100 JA 1/16W
R2554	401 105 0405	MT-GLAZE 100 JA 1/16W
R2555	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2556	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2557	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2558	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2559	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2560	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2561	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2562	401 105 0504	MT-GLAZE 1K JA 1/16W
R2566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2573	401 105 0405	MT-GLAZE 100 JA 1/16W
R2574	401 105 0405	MT-GLAZE 100 JA 1/16W
R2575	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2576	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2577	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2578	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R2579	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2580	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2582	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2583	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2584	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2585	401 105 0504	MT-GLAZE 1K JA 1/16W
R2586	401 105 4502	MT-GLAZE 390 JA 1/16W
R2587	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2588	401 105 0504	MT-GLAZE 1K JA 1/16W
R2589	401 105 4502	MT-GLAZE 390 JA 1/16W
R2590	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2591	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R2592	401 105 0504	MT-GLAZE 1K JA 1/16W
R2593	401 105 4502	MT-GLAZE 390 JA 1/16W
R2594	401 105 4205	MT-GLAZE 33K JA 1/16W
R2595	401 105 0603	MT-GLAZE 10K JA 1/16W
R261	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R264	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R267	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R287	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R291	401 105 0603	MT-GLAZE 10K JA 1/16W
R292	401 105 0504	MT-GLAZE 1K JA 1/16W
R293	401 105 0603	MT-GLAZE 10K JA 1/16W
R294	401 105 0504	MT-GLAZE 1K JA 1/16W
R301	401 225 7605	MT-GLAZE 1 JA 1W
R304	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R308	401 105 8005	MT-GLAZE 1M JA 1/16W
R310	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R311	401 105 0306	MT-GLAZE 10 JA 1/16W
R312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3201	401 105 8005	MT-GLAZE 1M JA 1/16W
R3203	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3210	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3212	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R322	401 105 0306	MT-GLAZE 10 JA 1/16W
R3221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3223	401 105 5202	MT-GLAZE 470 JA 1/16W
R3224	401 105 0405	MT-GLAZE 100 JA 1/16W
R3225	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3226	401 105 0306	MT-GLAZE 10 JA 1/16W
R3227	401 105 0405	MT-GLAZE 100 JA 1/16W
R3229	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3232	401 105 0306	MT-GLAZE 10 JA 1/16W
R3233	401 105 0306	MT-GLAZE 10 JA 1/16W
R325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R326	401 105 0603	MT-GLAZE 10K JA 1/16W
R327	401 105 0603	MT-GLAZE 10K JA 1/16W
R328	401 105 0603	MT-GLAZE 10K JA 1/16W
R329	401 105 7305	MT-GLAZE 820 JA 1/16W
R3301	401 105 0405	MT-GLAZE 100 JA 1/16W
R3302	401 105 0405	MT-GLAZE 100 JA 1/16W
R3303	401 105 0405	MT-GLAZE 100 JA 1/16W
R3304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3305	401 105 0405	MT-GLAZE 100 JA 1/16W
R3306	401 105 0405	MT-GLAZE 100 JA 1/16W
R3307	401 105 0405	MT-GLAZE 100 JA 1/16W
R3308	401 105 0405	MT-GLAZE 100 JA 1/16W
R3309	401 105 0405	MT-GLAZE 100 JA 1/16W
R331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3310	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3311	401 105 0405	MT-GLAZE 100 JA 1/16W
R3313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3314	401 105 0405	MT-GLAZE 100 JA 1/16W
R3315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3327	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3328	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R333	401 105 5905	MT-GLAZE 560 JA 1/16W
R3330	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3333	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3335	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3336	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R3338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3339	401 105 2706	MT-GLAZE 220 JA 1/16W
R334	401 105 0603	MT-GLAZE 10K JA 1/16W
R336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R337	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R342	401 105 0405	MT-GLAZE 100 JA 1/16W
R344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R347	401 105 5905	MT-GLAZE 560 JA 1/16W
R348	401 105 7305	MT-GLAZE 820 JA 1/16W
R351	401 105 0405	MT-GLAZE 100 JA 1/16W
R352	401 105 0405	MT-GLAZE 100 JA 1/16W
R354	401 105 0603	MT-GLAZE 10K JA 1/16W
R356	401 105 0603	MT-GLAZE 10K JA 1/16W
R357	401 105 0603	MT-GLAZE 10K JA 1/16W
R358	401 105 0504	MT-GLAZE 1K JA 1/16W
R359	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R361	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R365	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R377	401 105 0603	MT-GLAZE 10K JA 1/16W
R378	401 105 0603	MT-GLAZE 10K JA 1/16W
R379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R383	401 105 0603	MT-GLAZE 10K JA 1/16W
R385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R386	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R388	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R389	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R391	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R392	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R393	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R394	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R435	401 105 8203	MT-GLAZE 68K JA 1/16W
R436	401 105 8203	MT-GLAZE 68K JA 1/16W
R437	401 105 8203	MT-GLAZE 68K JA 1/16W
R438	401 105 0603	MT-GLAZE 10K JA 1/16W
R439	401 105 0603	MT-GLAZE 10K JA 1/16W
R441	401 105 0603	MT-GLAZE 10K JA 1/16W
R442	401 105 4205	MT-GLAZE 33K JA 1/16W
R443	401 105 4205	MT-GLAZE 33K JA 1/16W
R444	401 105 4205	MT-GLAZE 33K JA 1/16W
R445	401 113 6802	MT-GLAZE 11K JA 1/16W
R446	401 113 6802	MT-GLAZE 11K JA 1/16W
R447	401 113 6802	MT-GLAZE 11K JA 1/16W
R449	401 105 4205	MT-GLAZE 33K JA 1/16W
R452	401 105 4700	MT-GLAZE 39K JA 1/16W
R453	401 105 0504	MT-GLAZE 1K JA 1/16W
R455	401 105 0504	MT-GLAZE 1K JA 1/16W
R456	401 227 3001	MT-GLAZE 56K FA 1/16W
R457	401 217 4100	MT-GLAZE 22K FA 1/16W
R458	401 105 0603	MT-GLAZE 10K JA 1/16W
R461	401 105 0603	MT-GLAZE 10K JA 1/16W
R463	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R464	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R466	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R467	401 105 0603	MT-GLAZE 10K JA 1/16W
R468	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R469	401 105 0603	MT-GLAZE 10K JA 1/16W
R471	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R472	401 105 0405	MT-GLAZE 100 JA 1/16W
R473	401 105 0405	MT-GLAZE 100 JA 1/16W
R474	401 105 0405	MT-GLAZE 100 JA 1/16W
R476	401 105 1600	MT-GLAZE 15K JA 1/16W
R478	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R482	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R486	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R487	401 234 8600	MT-GLAZE 8.2K FA 1/16W
R492	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R503	401 105 3406	MT-GLAZE 27K JA 1/16W
R504	401 105 1105	MT-GLAZE 12K JA 1/16W
R505	401 105 0603	MT-GLAZE 10K JA 1/16W
R508	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R509	401 105 4007	MT-GLAZE 330 JA 1/16W
R510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R511	401 105 0603	MT-GLAZE 10K JA 1/16W
R512	401 105 0603	MT-GLAZE 10K JA 1/16W
R514	401 105 0603	MT-GLAZE 10K JA 1/16W
R515	401 105 0603	MT-GLAZE 10K JA 1/16W
R5302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5304	401 105 7305	MT-GLAZE 820 JA 1/16W
R5306	401 105 5905	MT-GLAZE 560 JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5323	401 105 7305	MT-GLAZE 820 JA 1/16W
R5324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5326	401 105 5905	MT-GLAZE 560 JA 1/16W
R533	401 105 3406	MT-GLAZE 27K JA 1/16W

Ref. No.	Part No.	Description
R534	401 105 1105	MT-GLAZE 12K JA 1/16W
R5342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5343	401 105 7305	MT-GLAZE 820 JA 1/16W
R5344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5346	401 105 5905	MT-GLAZE 560 JA 1/16W
R535	401 105 0603	MT-GLAZE 10K JA 1/16W
R5351	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5352	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R5358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5369	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5371	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5372	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5373	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5374	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R5377	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5378	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R538	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R539	401 105 4007	MT-GLAZE 330 JA 1/16W
R540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R541	401 105 0603	MT-GLAZE 10K JA 1/16W
R542	401 105 0603	MT-GLAZE 10K JA 1/16W
R544	401 105 0603	MT-GLAZE 10K JA 1/16W
R545	401 105 0603	MT-GLAZE 10K JA 1/16W
R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R563	401 105 3406	MT-GLAZE 27K JA 1/16W
R564	401 105 1105	MT-GLAZE 12K JA 1/16W
R565	401 105 0603	MT-GLAZE 10K JA 1/16W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R569	401 105 4007	MT-GLAZE 330 JA 1/16W
R570	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R571	401 105 0603	MT-GLAZE 10K JA 1/16W
R572	401 105 0603	MT-GLAZE 10K JA 1/16W
R574	401 105 0603	MT-GLAZE 10K JA 1/16W
R575	401 105 0603	MT-GLAZE 10K JA 1/16W
R6201	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6203	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6204	401 105 0603	MT-GLAZE 10K JA 1/16W
R6205	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R6302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6303	401 105 7305	MT-GLAZE 820 JA 1/16W
R6304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6306	401 105 5905	MT-GLAZE 560 JA 1/16W
R6322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6324	401 105 7305	MT-GLAZE 820 JA 1/16W
R6326	401 105 5905	MT-GLAZE 560 JA 1/16W
R6342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6343	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6344	401 105 7305	MT-GLAZE 820 JA 1/16W
R6346	401 105 5905	MT-GLAZE 560 JA 1/16W
R6351	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6352	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R6372	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6373	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6374	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6376	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6377	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R6379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6802	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6809	401 105 2904	MT-GLAZE 22K JA 1/16W
R6810	401 105 0603	MT-GLAZE 10K JA 1/16W
R6811	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6812	401 105 0405	MT-GLAZE 100 JA 1/16W
R6813	401 105 8104	MT-GLAZE 56K JA 1/16W
R6814	401 105 4700	MT-GLAZE 39K JA 1/16W
R6816	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R6817	401 105 0603	MT-GLAZE 10K JA 1/16W
R6818	401 105 2904	MT-GLAZE 22K JA 1/16W
R6819	401 105 2904	MT-GLAZE 22K JA 1/16W
R6820	401 105 0603	MT-GLAZE 10K JA 1/16W
R6821	401 105 0603	MT-GLAZE 10K JA 1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R6822	401 105 2904	MT-GLAZE 22K JA 1/16W
R6823	401 105 0603	MT-GLAZE 10K JA 1/16W
R6824	401 105 2904	MT-GLAZE 22K JA 1/16W
R6826	401 105 2805	MT-GLAZE 2. 2K JA 1/16W
R6827	401 105 2805	MT-GLAZE 2. 2K JA 1/16W
R6828	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R6829	401 105 0405	MT-GLAZE 100 JA 1/16W
R6832	401 105 0603	MT-GLAZE 10K JA 1/16W
R6833	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R6837	401 105 6001	MT-GLAZE 5. 6K JA 1/16W
R6838	401 105 0504	MT-GLAZE 1K JA 1/16W
R6839	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R6842	401 105 2003	MT-GLAZE 1. 8K JA 1/16W
R6843	401 105 0504	MT-GLAZE 1K JA 1/16W
R6844	401 105 0504	MT-GLAZE 1K JA 1/16W
R6846	401 105 0603	MT-GLAZE 10K JA 1/16W
R6848	401 105 0504	MT-GLAZE 1K JA 1/16W
R6849	401 105 0603	MT-GLAZE 10K JA 1/16W
R6852	401 105 0504	MT-GLAZE 1K JA 1/16W
R6853	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R6856	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R6857	401 105 4502	MT-GLAZE 390 JA 1/16W
R6858	401 105 4502	MT-GLAZE 390 JA 1/16W
R6859	401 105 4502	MT-GLAZE 390 JA 1/16W
R6881	401 105 5202	MT-GLAZE 470 JA 1/16W
R6882	401 105 1600	MT-GLAZE 15K JA 1/16W
R6883	401 105 6001	MT-GLAZE 5. 6K JA 1/16W
R6884	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R6885	401 105 3307	MT-GLAZE 2. 7K JA 1/16W
R6886	401 105 2003	MT-GLAZE 1. 8K JA 1/16W
R6887	401 105 1501	MT-GLAZE 1. 5K JA 1/16W
R6888	401 105 5202	MT-GLAZE 470 JA 1/16W
R6889	401 105 0603	MT-GLAZE 10K JA 1/16W
R6890	401 105 0603	MT-GLAZE 10K JA 1/16W
R6891	401 105 2904	MT-GLAZE 22K JA 1/16W
R6892	401 105 1600	MT-GLAZE 15K JA 1/16W
R6893	401 105 6001	MT-GLAZE 5. 6K JA 1/16W
R6894	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R6895	401 105 3307	MT-GLAZE 2. 7K JA 1/16W
R6896	401 105 2003	MT-GLAZE 1. 8K JA 1/16W
R6897	401 105 1501	MT-GLAZE 1. 5K JA 1/16W
R6898	401 105 5202	MT-GLAZE 470 JA 1/16W
R6899	401 105 0603	MT-GLAZE 10K JA 1/16W
R800	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R801	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R802	401 105 0405	MT-GLAZE 100 JA 1/16W
R803	401 105 0405	MT-GLAZE 100 JA 1/16W
R804	401 105 0405	MT-GLAZE 100 JA 1/16W
R805	401 105 0405	MT-GLAZE 100 JA 1/16W
R808	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R811	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R812	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R813	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R816	401 105 0603	MT-GLAZE 10K JA 1/16W
R817	401 105 0504	MT-GLAZE 1K JA 1/16W
R819	401 105 2904	MT-GLAZE 22K JA 1/16W
R821	401 105 2904	MT-GLAZE 22K JA 1/16W
R823	401 105 0900	MT-GLAZE 120 JA 1/16W
R824	401 105 5301	MT-GLAZE 4. 7K JA 1/16W
R825	401 105 0405	MT-GLAZE 100 JA 1/16W
R826	401 105 0405	MT-GLAZE 100 JA 1/16W
R827	401 105 0405	MT-GLAZE 100 JA 1/16W
R828	401 105 0603	MT-GLAZE 10K JA 1/16W
R831	401 105 0405	MT-GLAZE 100 JA 1/16W
R832	401 105 0405	MT-GLAZE 100 JA 1/16W
R833	ACCORDING TO ASSY NO.	
1AA0B10C20900	NOT USED	
1AA0B10C209A0	401 105 2102	18K JA 1/16W
1AA0B10C209B0	401 105 0603	10K JA 1/16W
1AA0B10C209C0	401 105 3406	27K JA 1/16W
R834	401 105 0603	MT-GLAZE 10K JA 1/16W
R835	401 105 2003	MT-GLAZE 1. 8K JA 1/16W
R836	401 105 0603	MT-GLAZE 10K JA 1/16W
R837	401 105 0405	MT-GLAZE 100 JA 1/16W
R838	401 105 0504	MT-GLAZE 1K JA 1/16W
R839	401 105 0405	MT-GLAZE 100 JA 1/16W

Ref. No.	Part No.	Description
R840	401 105 0603	MT-GLAZE 10K JA 1/16W
R841	401 105 0603	MT-GLAZE 10K JA 1/16W
R842	401 105 0405	MT-GLAZE 100 JA 1/16W
R843	401 105 2904	MT-GLAZE 22K JA 1/16W
R844	401 105 0405	MT-GLAZE 100 JA 1/16W
R845	401 105 2904	MT-GLAZE 22K JA 1/16W
R846	401 105 0405	MT-GLAZE 100 JA 1/16W
R847	401 105 0603	MT-GLAZE 10K JA 1/16W
R848	401 105 0405	MT-GLAZE 100 JA 1/16W
R849	401 105 0603	MT-GLAZE 10K JA 1/16W
R851	401 105 0405	MT-GLAZE 100 JA 1/16W
R853	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R854	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R856	401 105 0603	MT-GLAZE 10K JA 1/16W
R857	401 105 0603	MT-GLAZE 10K JA 1/16W
R858	401 105 0405	MT-GLAZE 100 JA 1/16W
R860	401 105 0603	MT-GLAZE 10K JA 1/16W
R861	401 105 0603	MT-GLAZE 10K JA 1/16W
R866	401 105 0603	MT-GLAZE 10K JA 1/16W
R871	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R872	401 105 0603	MT-GLAZE 10K JA 1/16W
R873	401 105 0603	MT-GLAZE 10K JA 1/16W
R874	401 105 0603	MT-GLAZE 10K JA 1/16W
R876	401 105 0603	MT-GLAZE 10K JA 1/16W
R877	401 105 0405	MT-GLAZE 100 JA 1/16W
R878	401 105 0405	MT-GLAZE 100 JA 1/16W
R881	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R882	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R884	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R887	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
R888	401 105 7909	MT-GLAZE 0. 000 ZA 1/16W
VARIABLE RESISTOR		
VRST20	645 000 0409	TERMINAL
VR1451	645 025 7421	VR, SEMI, 10K S
VR2502	645 025 7414	VR, SEMI, 1K S
VR2503	645 025 7414	VR, SEMI, 1K S
VR2504	645 025 7414	VR, SEMI, 1K S
VR491	645 025 7421	VR, SEMI, 10K S
VR501	645 025 7421	VR, SEMI, 10K S
VR531	645 025 7421	VR, SEMI, 10K S
VR561	645 025 7421	VR, SEMI, 10K S
COIL		
L1251	645 020 1776	INDUCTOR, 3. 3U M
L2211	645 020 1776	INDUCTOR, 3. 3U M
L2212	645 020 1776	INDUCTOR, 3. 3U M
L241	645 026 1008	INDUCTOR, 3. 3U M
L242	645 020 1776	INDUCTOR, 3. 3U M
L2501	645 008 4782	INDUCTOR, 1. 2U K
L2502	401 035 4306	MT-GLAZE 10 JA 1/8W
L2521	645 008 4782	INDUCTOR, 1. 2U K
L2541	645 008 4782	INDUCTOR, 1. 2U K
L2561	645 008 4782	INDUCTOR, 1. 2U K
L2572	401 036 8907	MT-GLAZE 5. 6 JA 1/8W
L3201	645 020 1776	INDUCTOR, 3. 3U M
L3202	645 002 5235	INDUCTOR, 5. 6U M
L3203	645 002 5235	INDUCTOR, 5. 6U M
L471	645 026 1008	INDUCTOR, 3. 3U M
L481	645 020 1776	INDUCTOR, 3. 3U M
L501	645 002 5129	INDUCTOR, 0. 47U M
L531	645 002 5129	INDUCTOR, 0. 47U M
L561	645 002 5129	INDUCTOR, 0. 47U M
DIODE		
D1251	407 149 0807	DIODE 1SS355-TE-17
D1252	407 149 0807	DIODE 1SS355-TE-17
D1301	407 149 0807	DIODE 1SS355-TE-17
D2211	407 149 0807	DIODE 1SS355-TE-17
D2212	407 149 0807	DIODE 1SS355-TE-17
D2501	407 149 0807	DIODE 1SS355-TE-17
D2502	407 149 0807	DIODE 1SS355-TE-17
D2503	407 149 0807	DIODE 1SS355-TE-17
D2504	407 149 0807	DIODE 1SS355-TE-17
D2531	407 149 0807	DIODE 1SS355-TE-17
D2532	407 149 0807	DIODE 1SS355-TE-17

【 Electrical Parts List 】

Ref. No.	Part No.	Description
D2533	407 149 0807	DIODE 1SS355-TE-17
D2534	407 149 0807	DIODE 1SS355-TE-17
D2551	407 149 0807	DIODE 1SS355-TE-17
D2552	407 149 0807	DIODE 1SS355-TE-17
D2553	407 149 0807	DIODE 1SS355-TE-17
D2554	407 149 0807	DIODE 1SS355-TE-17
D301	407 149 0807	DIODE 1SS355-TE-17
D3201	407 149 0807	DIODE 1SS355-TE-17
D3301	407 149 0807	DIODE 1SS355-TE-17
D481	407 149 0807	DIODE 1SS355-TE-17
D5351	407 149 0807	DIODE 1SS355-TE-17
D6351	407 149 0807	DIODE 1SS355-TE-17
D6801	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6802	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D6803	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6804	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6806	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6807	407 187 8209	ZENER DIODE UDZ12B-TE-17
D6808	407 187 8209	ZENER DIODE UDZ12B-TE-17
D801	407 149 0807	DIODE 1SS355-TE-17
D802	407 187 8209	ZENER DIODE UDZ12B-TE-17
D803	407 187 8209	ZENER DIODE UDZ12B-TE-17
D804	407 187 8209	ZENER DIODE UDZ12B-TE-17
D805	407 187 8209	ZENER DIODE UDZ12B-TE-17
MISCELLANEOUS		
TE201	645 000 0409	TERMINAL
TE241	645 000 0409	TERMINAL
TE261	645 000 0409	TERMINAL
TE281	645 000 0409	TERMINAL
TE501	645 000 0409	TERMINAL
TE531	645 000 0409	TERMINAL
TE561	645 000 0409	TERMINAL
TE801	645 000 0409	TERMINAL
TE802	645 000 0409	TERMINAL
TE811	645 000 0409	TERMINAL
T01A	645 000 0409	TERMINAL
T02A	645 000 0409	TERMINAL
T03A	645 000 0409	TERMINAL
FHI	645 000 0409	TERMINAL
ADENO	645 000 0409	TERMINAL
ADEN30	645 000 0409	TERMINAL
ICLB	645 000 0409	TERMINAL
TPENB	645 000 0409	TERMINAL
TPRST	645 000 0409	TERMINAL
TPVRST	645 000 0409	TERMINAL
TP1253	645 000 0409	TERMINAL
TP201	645 000 0409	TERMINAL
TP202	645 000 0409	TERMINAL
TP203	645 000 0409	TERMINAL
TP241	645 000 0409	TERMINAL
TP2571	645 000 0409	TERMINAL
TP261	645 000 0409	TERMINAL
TP281	645 000 0409	TERMINAL
TP30080	645 000 0409	TERMINAL
TP301130	645 000 0409	TERMINAL
TP301294	645 000 0409	TERMINAL
TP301336	645 000 0409	TERMINAL
TP30181	645 000 0409	TERMINAL
TP3203	645 000 0409	TERMINAL
TP3212	645 000 0409	TERMINAL
TP401	645 000 0409	TERMINAL
TP402	645 000 0409	TERMINAL
TP403	645 000 0409	TERMINAL
TP501	645 000 0409	TERMINAL
TP502	645 000 0409	TERMINAL
TP503	645 000 0409	TERMINAL
TP511	645 000 0409	TERMINAL
TP512	645 000 0409	TERMINAL
TP513	645 000 0409	TERMINAL
TP5305	645 000 0409	TERMINAL
TP5351	645 000 0409	TERMINAL
TP5352	645 000 0409	TERMINAL
TP5353	645 000 0409	TERMINAL
TP5354	645 000 0409	TERMINAL
TP6301	645 000 0409	TERMINAL
TP6302	645 000 0409	TERMINAL
TP6303	645 000 0409	TERMINAL
TP6304	645 000 0409	TERMINAL
TP6305	645 000 0409	TERMINAL
TP801	645 000 0409	TERMINAL
TP811	645 000 0409	TERMINAL
TP812	645 000 0409	TERMINAL
TP813	645 000 0409	TERMINAL
TP814	645 000 0409	TERMINAL
TP815	645 000 0409	TERMINAL
BGA2150	645 000 0409	TERMINAL
BUNO	645 000 0409	TERMINAL
EOFO	645 000 0409	TERMINAL
GTVC	645 000 0409	TERMINAL
HVT	645 000 0409	TERMINAL
KDCK	645 000 0409	TERMINAL
KFH	645 000 0409	TERMINAL
KKKO	645 000 0409	TERMINAL
KTRIIN	645 000 0409	TERMINAL
KTRIOUT	645 000 0409	TERMINAL
K25B	645 004 8609	SOCKET, FPC 30P
K25G	645 004 8609	SOCKET, FPC 30P
K25R	645 004 8609	SOCKET, FPC 30P
K8A	645 025 0330	PLUG, PWB-PWB 54P
K8B	645 025 0330	PLUG, PWB-PWB 54P
K8C	645 020 7211	PLUG, 7P
K8D	645 010 0772	PLUG, 8P
K8E	645 025 7193	PLUG, 12P
K8F	645 012 2248	PLUG, 4P
K8G	645 020 7204	PLUG, 5P
K8H	645 020 7198	PLUG, 3P
K8K	645 010 0772	PLUG, 8P
K8L	645 020 7204	PLUG, 5P
K8M	645 025 0330	PLUG, PWB-PWB 54P
K8N	645 025 0330	PLUG, PWB-PWB 54P
K8P	645 025 7193	PLUG, 12P
K8Q	645 012 2248	PLUG, 4P
K8R	645 020 7198	PLUG, 3P
K8S	645 020 7211	PLUG, 7P
NRGA	645 000 0409	TERMINAL
ODT	645 000 0409	TERMINAL
OOO	645 000 0409	TERMINAL
OOOA	645 000 0409	TERMINAL
OQO	645 000 0409	TERMINAL
OQ1	645 000 0409	TERMINAL
SDIOC	645 000 0409	TERMINAL
SDIOCA	645 000 0409	TERMINAL
SDREN	645 000 0409	TERMINAL
SDRENA	645 000 0409	TERMINAL
SDWEN	645 000 0409	TERMINAL
SDWENA	645 000 0409	TERMINAL
SW801	645 025 3478	SWITCH, PUSH 1P-2TX1
SW802	645 025 3478	SWITCH, PUSH 1P-2TX1
SW803	645 025 3478	SWITCH, PUSH 1P-2TX1
SW804	645 025 3478	SWITCH, PUSH 1P-2TX1
SW805	645 025 3478	SWITCH, PUSH 1P-2TX1
SW806	645 025 3478	SWITCH, PUSH 1P-2TX1
SW807	645 025 3478	SWITCH, PUSH 1P-2TX1
SW808	645 025 3478	SWITCH, PUSH 1P-2TX1
SW811	645 025 3478	SWITCH, PUSH 1P-2TX1
SW812	645 025 3478	SWITCH, PUSH 1P-2TX1
SW813	645 025 3478	SWITCH, PUSH 1P-2TX1
SW814	645 025 3478	SWITCH, PUSH 1P-2TX1
SW815	645 025 3478	SWITCH, PUSH 1P-2TX1
SW816	645 025 3478	SWITCH, PUSH 1P-2TX1
SW817	645 025 3478	SWITCH, PUSH 1P-2TX1
SW818	645 025 3478	SWITCH, PUSH 1P-2TX1
WDONE	645 000 0409	TERMINAL
XOSDBLK	645 000 0409	TERMINAL
XSIGBLK	645 000 0409	TERMINAL
XVRAM	645 000 0409	TERMINAL
X2211	645 030 5863	OSC, CRISTAL, 14.318MHZ
X3201	645 024 7712	OSC, CRISTAL, 60MHZ
X801	645 029 5966	OSC, CRYSTAL 8.000MHZ

【 Electrical Parts List 】

610 278 0697 ASSY POWER M6SA
1AASB10C19800

Ref. No.	Part No.	Description
CN6AB	645 008 3679	SOCKET, 15P
CN6BB	645 005 8615	SOCKET, 12P
⚠C601	404 078 8706	MT-POLYEST 0.47U M 275V
⚠C602	404 078 8706	MT-POLYEST 0.47U M 275V
⚠C603	404 078 8300	MT-POLYEST 0.22U M 275V
⚠C606	404 059 9203	CERAMIC 1000P M 400V
⚠C607	404 059 9203	CERAMIC 1000P M 400V
C608	404 059 9203	CERAMIC 1000P M 400V
C609	404 059 9203	CERAMIC 1000P M 400V
C611	403 165 6007	CERAMIC 1000P K 1K
C612	403 165 6007	CERAMIC 1000P K 1K
C613	403 126 4608	ELECT 100U M 25V
C614	403 126 4608	ELECT 100U M 25V
C616	403 275 6003	MT-POLYEST 1.5U J 400V
C617	403 148 1807	ELECT 220U M 35V
C618	404 079 4202	ELECT 220U M 450V
C619	403 323 8706	MT-POLYEST 0.047U K 450V
C621	403 165 6007	CERAMIC 1000P K 1K
C622	403 071 3503	CERAMIC 0.018U K 50V
C631	403 156 9000	ELECT 2.2U M 50V
C632	403 237 7901	MT-COMPO 0.22U J 50V
C633	403 069 1702	CERAMIC 1000P K 50V
C634	403 165 8803	CERAMIC 330P K 2K
C636	403 070 2606	CERAMIC 0.1U Z 50V
C637	403 167 8603	CERAMIC 220P K 2K
C638	403 333 3500	POLYPRO 0.022U J 630V
C639	403 074 9502	CERAMIC 680P K 50V
C640	403 070 2606	CERAMIC 0.1U Z 50V
C641	403 156 8805	ELECT 1U M 50V
C642	403 148 1807	ELECT 220U M 35V
C643	403 070 2606	CERAMIC 0.1U Z 50V
C644	403 166 9809	TA-SOLID 0.47U M 25V
C651	403 148 0701	ELECT 2200U M 25V
	403 313 6002	ELECT 2200U M 25V
C652	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C653	403 119 7609	ELECT 2200U M 10V
	403 313 5906	ELECT 2200U M 10V
C654	403 119 7609	ELECT 2200U M 10V
	403 313 5906	ELECT 2200U M 10V
C655	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C656	403 070 2606	CERAMIC 0.1U Z 50V
C657	403 070 2606	CERAMIC 0.1U Z 50V
C658	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C659	403 155 5607	ELECT 220U M 10V
C660	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C661	403 156 9208	ELECT 4.7U M 50V
C662	403 119 7609	ELECT 2200U M 10V
	403 313 5906	ELECT 2200U M 10V
C663	403 119 7609	ELECT 2200U M 10V
	403 313 5906	ELECT 2200U M 10V
C665	403 134 6403	ELECT 2200U M 16V
C666	403 134 6403	ELECT 2200U M 16V
C667	403 126 4707	ELECT 220U M 16V
C668	403 126 4707	ELECT 220U M 16V
C669	403 069 9500	CERAMIC 0.01U Z 50V
C670	403 148 0107	ELECT 1000U M 16V
	403 301 2405	ELECT 1000U M 16V
C671	403 126 4707	ELECT 220U M 16V
C672	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C673	403 148 0404	ELECT 1000U M 25V
	403 301 7103	ELECT 1000U M 25V
C674	403 069 9500	CERAMIC 0.01U Z 50V
DB601	407 202 7705	DIODE D10XB60
DB601A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
DB601B	411 174 4709	SCR S-TPG PAN+SWW 3X10
DB601H	610 276 0439	HEAT SINK POWER A-M6SA
DS601	407 175 2400	THYRISTOR CR12AM-12
DS601A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
DS601B	411 174 4808	SCR S-TPG PAN+SWW 3X8
DS602	407 175 2400	THYRISTOR CR12AM-12
DZ631	407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 2806	ZD 02CZ12Y(TE85R)
D601	407 174 2302	DIODE AK06
D602	407 191 3900	DIODE FML-G16S
D602A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
D602B	411 174 4709	SCR S-TPG PAN+SWW 3X10
D602H	610 276 0446	HEAT SINK POWER B-M6SA
D603	407 190 4106	DIODE SFPL-52V
D605	407 190 4106	DIODE SFPL-52V
D615	407 103 1505	ZENER DIODE RD22M-T1BB3
	407 198 9004	ZD 02CZ22Z(TE85R)
D621	407 149 0807	DIODE 1SS355-TE-17
D622	407 149 0807	DIODE 1SS355-TE-17
D630	407 056 9306	ZENER DIODE RD5.1M-T1BB2
	407 056 9405	ZENER DIODE RD5.1M-T2BB3
D631	407 149 0807	DIODE 1SS355-TE-17
D632	407 190 4106	DIODE SFPL-52V
D633	407 100 6909	DIODE AG01
D661	407 202 9808	DIODE FMB-26L
D661A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
D661B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D661H	610 276 0453	HEAT SINK POWER C-M6SA
D662	407 164 2206	DIODE FMB-24L
D662A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
D662B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D663	407 190 4106	DIODE SFPL-52V
D665	407 206 9804	DIODE SFPB-52V
D666	407 202 9808	DIODE FMB-26L
D666A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
D666B	411 174 4808	SCR S-TPG PAN+SWW 3X8
D667	407 149 0807	DIODE 1SS355-TE-17
D669	407 149 0807	DIODE 1SS355-TE-17
FB603	610 229 3531	CORE
FB606	610 229 3531	CORE
FB607	610 229 3531	CORE
FB608	610 229 3531	CORE
IC601	409 421 4701	IC STR-Z2156
IC601A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
IC601B1	411 047 0104	SCR PAN+SW+W 3X8
IC601B2	411 047 0104	SCR PAN+SW+W 3X8
IC601H	610 273 6595	HEAT SINK D-M6RA
IC661	410 229 0901	IC SI-3120CA LF1113
IC661A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
IC661B	411 174 4808	SCR S-TPG PAN+SWW 3X8
IC661H	610 093 6522	RADIATOR-A3RA-D
IC662	409 308 8600	IC SE005N
IC663	409 444 8106	IC LM2931CD
J601	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
J603	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
J604	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
KL601	645 004 2898	PLUG, 3P
K6A	645 032 5885	PLUG, 2P
K6B	645 005 9315	PLUG, 2P
⚠L601	645 025 7810	LINE FILTER
⚠L602	645 025 7810	LINE FILTER
L603	645 032 8497	INDUCTOR, 850U
L603A1	610 077 8696	ADHESIVE 150G
L603B1	610 278 3544	SPACER P.F.-M6SA
L603B2	610 077 8696	ADHESIVE 150G
L661	645 007 7968	INDUCTOR, 10U M
L662	645 007 7968	INDUCTOR, 10U M
L664	645 007 7968	INDUCTOR, 10U M
L665	645 007 8118	INDUCTOR, 390U K
L671	645 007 7968	INDUCTOR, 10U M
PB601	610 275 7651	PWB, POWER COMP. M6SA
	610 276 1535	PWB, POWER-A M6SA
PC621	407 145 4908	PC TLP121 GB TPL
PTH601	408 037 4600	THERMISTOR NTH11D8R0LA
Q601	405 140 3704	TR 2SK2698

【 Electrical Parts List 】

Ref. No.	Part No.	Description
Q601A	610 263 7175	SPACER TC-30CG(TO-3P)
Q601B	411 154 3104	SCR S-TPG PAN+SWW 3X12
Q621	405 002 0308	TR 2SA1037K T146 R
Q623	405 002 0308	TR 2SA1037K T146 R
Q661	405 144 6503	TR 2SK2312
Q662	405 144 6503	TR 2SK2312
Q663	405 014 4509	TR 2SC2412K T146 R
Q664	405 138 1309	TR 2SB1565-E
	405 138 1408	TR 2SB1565-F
Q665	405 002 0308	TR 2SA1037K T146 R
Q671	405 144 6503	TR 2SK2312
Q672	405 014 4509	TR 2SC2412K T146 R
Q673	405 002 0308	TR 2SA1037K T146 R
△R601	401 008 8607	CARBON 220K JA 1/2W
R602	401 237 0007	MT-GLAZE 47K JA 1W
R603	401 237 0007	MT-GLAZE 47K JA 1W
R604	401 237 0007	MT-GLAZE 47K JA 1W
R605	401 237 0007	MT-GLAZE 47K JA 1W
R606	401 237 0007	MT-GLAZE 47K JA 1W
R607	401 237 0007	MT-GLAZE 47K JA 1W
R608	402 079 1900	RESISTER 0.22 JA 2W
R609	402 079 1900	RESISTER 0.22 JA 2W
R611	401 242 3901	MT-GLAZE 240K JA 1/2W
R612	401 242 3901	MT-GLAZE 240K JA 1/2W
R613	401 038 0602	MT-GLAZE 220 JA 1/10W
R614	401 258 8204	MT-GLAZE 680 JA 1/3W
R616	402 080 8806	MT-GLAZE 680 KA 1W
R618	401 259 9002	MT-GLAZE 150K FA 1/2W
	401 260 0500	MT-GLAZE 150K FD 1/2W
R619	401 259 9002	MT-GLAZE 150K FA 1/2W
	401 260 0500	MT-GLAZE 150K FD 1/2W
R621	401 259 9002	MT-GLAZE 150K FA 1/2W
	401 260 0500	MT-GLAZE 150K FD 1/2W
R622	401 259 9002	MT-GLAZE 150K FA 1/2W
	401 260 0500	MT-GLAZE 150K FD 1/2W
R626	401 183 7501	MT-GLAZE 560 JA 1/2W
R627	401 037 9101	MT-GLAZE 180 JA 1/10W
R628	401 037 7800	MT-GLAZE 150 JA 1/10W
R629	401 038 0503	MT-GLAZE 22 JA 1/10W
R631	401 038 0503	MT-GLAZE 22 JA 1/10W
R632	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R633	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R634	401 038 6505	MT-GLAZE 47K JA 1/10W
R635	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R636	401 038 2309	MT-GLAZE 270K JA 1/10W
R637	401 038 9308	MT-GLAZE 68K JA 1/10W
R638	401 038 0909	MT-GLAZE 220K JA 1/10W
R639	401 037 8005	MT-GLAZE 15K JA 1/10W
R640	401 275 2902	MT-GLAZE 68K JA 1W
R641	401 069 4402	OXIDE-MT 68K JA 2W
R642	401 069 4402	OXIDE-MT 68K JA 2W
R643	402 081 2902	FUSIBLE RES 22 JH 1/2W
R644	401 238 4509	MT-GLAZE 47 JA 1/3W
R645	401 037 5707	MT-GLAZE 100K JA 1/10W
R646	401 037 5400	MT-GLAZE 1K JA 1/10W
R647	401 257 7406	MT-GLAZE 120 JA 1/3W
R648	401 037 5608	MT-GLAZE 10K JA 1/10W
R649	401 275 2902	MT-GLAZE 68K JA 1W
R653	401 038 5300	MT-GLAZE 39K JA 1/10W
R654	401 037 5608	MT-GLAZE 10K JA 1/10W
R655	401 038 0602	MT-GLAZE 220 JA 1/10W
R656	401 038 1807	MT-GLAZE 27 JA 1/10W
R657	401 037 5400	MT-GLAZE 1K JA 1/10W
R658	401 037 8005	MT-GLAZE 15K JA 1/10W
R659	401 037 5707	MT-GLAZE 100K JA 1/10W
R660	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R661	401 037 8005	MT-GLAZE 15K JA 1/10W
R662	401 037 5707	MT-GLAZE 100K JA 1/10W
R663	401 037 5608	MT-GLAZE 10K JA 1/10W
R664	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R665	401 038 5300	MT-GLAZE 39K JA 1/10W
R666	401 238 4202	MT-GLAZE 1.5K JA 1/3W
R668	401 238 4400	MT-GLAZE 2.7K JA 1/3W
R669	401 038 6505	MT-GLAZE 47K JA 1/10W
R670	401 037 8005	MT-GLAZE 15K JA 1/10W
R672	401 037 5707	MT-GLAZE 100K JA 1/10W
R673	401 037 8005	MT-GLAZE 15K JA 1/10W
R674	401 038 7601	MT-GLAZE 560 JA 1/10W
R675	401 037 5608	MT-GLAZE 10K JA 1/10W
R676	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R677	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R678	401 037 5202	MT-GLAZE 100 JA 1/10W
TSW601	645 027 4145	SWITCH, THERMAL
	645 031 0256	THERMOSTATS
TSW601A	610 077 7613	SILICON GREASE G-746
	610 077 7781	SILICON GREASE
TSW601B	411 174 4709	SCR S-TPG PAN+SWW 3X10
TSW601TM	401 024 7004	CARBON 1K JA 1/6W
△T631	645 033 1381	TRANS, POWER, PULSE
△VA601	407 130 2902	VARISTOR ENC471D-14A
VR01A	610 221 1931	
VR661	645 002 3538	VR, SEMI, 4.7K S
VR663	645 002 3460	VR, SEMI, 1K S
ASSY, PWB, HIC-A M6SA		
C01	403 074 9502	CERAMIC 680P K 50V
C02	403 075 2304	CERAMIC 0.068U Z 50V
C03	403 070 2606	CERAMIC 0.1U Z 50V
C04	403 030 7009	CERAMIC 68P J 50V
C05	403 069 5601	CERAMIC 0.01U K 50V
C06	403 073 7301	CERAMIC 470P K 50V
C07	403 073 1200	CERAMIC 0.033U K 50V
C08	403 072 1607	CERAMIC 0.022U K 50V
C10	403 070 2606	CERAMIC 0.1U Z 50V
C11	403 070 2606	CERAMIC 0.1U Z 50V
D01	407 004 1000	DIODE DCC010-TB
D02	407 004 1000	DIODE DCC010-TB
IC01	409 406 7000	IC FA5331M
K1	610 225 9421	TERMINAL 10P
Q01	405 014 4509	TR 2SC2412K T146 R
Q02	405 002 0308	TR 2SA1037K T146 R
R01	401 038 0800	MT-GLAZE 22K JA 1/10W
R02	401 037 5608	MT-GLAZE 10K JA 1/10W
R03	401 157 0903	MT-GLAZE 3.9M JA 1/10W
R04	401 038 0503	MT-GLAZE 22 JA 1/10W
R05	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R06	401 038 5508	MT-GLAZE 4.7 JA 1/10W
R07	401 038 3504	MT-GLAZE 330 JA 1/10W
R08	401 037 5202	MT-GLAZE 100 JA 1/10W
R09	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R11	401 038 6604	MT-GLAZE 470K JA 1/10W
R12	401 037 9408	MT-GLAZE 180K JA 1/10W
R13	401 148 2701	MT-GLAZE 1.1K FA 1/10W
R14	401 092 3304	MT-GLAZE 1.2K FA 1/10W
VR01	645 017 7446	VR, SEMI, 1K M
ASSY, PWB, HIC-B M6SA		
C51	403 070 2606	CERAMIC 0.1U Z 50V
DZ51	407 071 7806	ZENER DIODE DZD6.8Z-TA
	407 198 6607	ZD 02CZ6.8Z(TE85R)
D51	407 149 0807	DIODE 1SS355-TE-17
K02	610 225 9384	TERMINAL 6P
K03	610 225 9377	TERMINAL 5P
△PC51	408 014 9703	PC CNY17F-30PT1+6
	408 016 8803	PC PC113 (VDE0884)
△PC52	408 014 9703	PC CNY17F-30PT1+6
	408 016 8803	PC PC113 (VDE0884)
△PC53	408 014 9703	PC CNY17F-30PT1+6
	408 016 8803	PC PC113 (VDE0884)
Q51	405 014 4509	TR 2SC2412K T146 R
Q52	405 014 4509	TR 2SC2412K T146 R
Q53	405 014 4509	TR 2SC2412K T146 R
R51	401 037 5400	MT-GLAZE 1K JA 1/10W
R52	401 038 7601	MT-GLAZE 560 JA 1/10W
R53	401 037 5103	MT-GLAZE 10 JA 1/10W
R54	401 037 5400	MT-GLAZE 1K JA 1/10W
R55	401 037 9309	MT-GLAZE 18K JA 1/10W
R56	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R57	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R58	401 037 6803	MT-GLAZE 12K JA 1/10W
R59	401 037 5608	MT-GLAZE 10K JA 1/10W
R61	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R62	401 037 7909	MT-GLAZE 1.5K JA 1/10W

【 Electrical Parts List 】

610 276 7759 ASSY,PWB,A/V M6SA
1AA0B10C2040A

Ref. No.	Part No.	Description
TRANSISTOR		
Q2101	405 014 4509	TR 2SC2412K T146 R
Q2102	405 014 4509	TR 2SC2412K T146 R
Q2106	405 014 4509	TR 2SC2412K T146 R
Q2107	405 014 4509	TR 2SC2412K T146 R
Q2108	405 014 4509	TR 2SC2412K T146 R
Q2109	405 014 4509	TR 2SC2412K T146 R
Q3111	405 014 4509	TR 2SC2412K T146 R
Q3121	405 014 4509	TR 2SC2412K T146 R
Q3122	405 014 4509	TR 2SC2412K T146 R
Q3126	405 014 4509	TR 2SC2412K T146 R
Q3131	405 014 4509	TR 2SC2412K T146 R
Q3132	405 014 4509	TR 2SC2412K T146 R
Q3136	405 014 4509	TR 2SC2412K T146 R
Q3151	405 002 0308	TR 2SA1037K T146 R
Q3152	405 014 4509	TR 2SC2412K T146 R
Q3161	405 014 4509	TR 2SC2412K T146 R
Q3162	405 002 0308	TR 2SA1037K T146 R
Q3163	405 014 4509	TR 2SC2412K T146 R
Q3171	405 014 4509	TR 2SC2412K T146 R
Q3172	405 014 4509	TR 2SC2412K T146 R
Q3173	405 014 4509	TR 2SC2412K T146 R
Q3174	405 002 0308	TR 2SA1037K T146 R
Q3176	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC2101	409 153 5601	IC MC74F244M
IC2102	409 407 7900	IC EL4332CS
IC2103	409 407 7900	IC EL4332CS
IC2104	409 403 7300	IC EL2386CS-T2
IC2603	410 306 4600	IC M52347FP-600D
IC2801	410 296 5700	IC TWM7000-151020
IC2802	410 275 5707	IC TWM7000-162020
	410 275 5806	IC TWM7000-162020
IC2803	409 380 6303	IC HIN232CB
IC2851	410 296 5700	IC TWM7000-151020
IC2871	410 296 2402	IC TMP47C101M-JV45
IC2872	409 344 1900	IC MN1382-Q-TX
IC3101	409 051 2702	IC TC4052BF-TP1
IC3151	409 211 7301	IC MC14053BFL
CAPACITOR		
C100	403 314 5905	CERAMIC 0.47U K 16V
C1001	403 071 6504	CERAMIC 220P K 50V
C1011	403 071 6504	CERAMIC 220P K 50V
C1081	403 069 9500	CERAMIC 0.01U Z 50V
C2101	403 316 5408	CERAMIC 1U K 10V
C2102	403 069 9500	CERAMIC 0.01U Z 50V
C2103	403 069 9500	CERAMIC 0.01U Z 50V
C2104	403 069 9500	CERAMIC 0.01U Z 50V
C2106	403 316 5408	CERAMIC 1U K 10V
C2107	403 069 9500	CERAMIC 0.01U Z 50V
C2109	403 316 5408	CERAMIC 1U K 10V
C2110	403 316 5408	CERAMIC 1U K 10V
C2111	403 021 0200	CERAMIC 3P C 50V
C2112	403 021 0200	CERAMIC 3P C 50V
C2113	403 021 0200	CERAMIC 3P C 50V
C2117	403 162 4006	ELECT 22U M 6.3V
C2118	403 316 5408	CERAMIC 1U K 10V
C2119	403 316 5408	CERAMIC 1U K 10V
C2121	403 192 5905	CERAMIC 0.1U K 25V
C2122	403 162 4006	ELECT 22U M 6.3V
C2125	403 316 5408	CERAMIC 1U K 10V
C2126	403 316 5408	CERAMIC 1U K 10V
C2127	403 069 9500	CERAMIC 0.01U Z 50V
C2128	403 316 5408	CERAMIC 1U K 10V
C2129	403 069 9500	CERAMIC 0.01U Z 50V
C2131	403 070 2606	CERAMIC 0.1U Z 50V
C2132	403 070 2606	CERAMIC 0.1U Z 50V
C2151	403 175 3300	ELECT 47U M 16V
C2152	403 175 3300	ELECT 47U M 16V
C2153	403 175 3300	ELECT 47U M 16V
C2156	403 105 9501	CERAMIC 1000P J 50V
C2157	403 105 9501	CERAMIC 1000P J 50V
C2158	403 105 9501	CERAMIC 1000P J 50V
C2171	403 280 0607	ELECT 220U M 6.3V
C2172	403 280 0607	ELECT 220U M 6.3V
C2176	403 280 0607	ELECT 220U M 6.3V
C2177	403 280 0607	ELECT 220U M 6.3V
C2178	403 280 0607	ELECT 220U M 6.3V
C2181	403 280 0607	ELECT 220U M 6.3V
C2182	403 280 0607	ELECT 220U M 6.3V
C2631	403 070 2606	CERAMIC 0.1U Z 50V
C2632	403 162 4709	ELECT 10U M 16V
C2634	403 075 2304	CERAMIC 0.068U Z 50V
C2635	403 175 3904	ELECT 10U M 25V
C2637	403 009 5708	CERAMIC 100P J 50V
C2638	403 070 2606	CERAMIC 0.1U Z 50V
C2639	403 175 4505	ELECT 47U M 6.3V
C2641	403 018 7502	CERAMIC 220P J 50V
C2673	403 162 6208	ELECT 1U M 50V
C2801	403 316 5408	CERAMIC 1U K 10V
C2803	403 316 5408	CERAMIC 1U K 10V
C2804	403 316 5408	CERAMIC 1U K 10V
C2808	403 162 6208	ELECT 1U M 50V
C2811	403 162 6208	ELECT 1U M 50V
C2812	403 162 6208	ELECT 1U M 50V
C2813	403 162 6208	ELECT 1U M 50V
C2814	403 162 6208	ELECT 1U M 50V
C2816	403 316 5408	CERAMIC 1U K 10V
C2820	403 316 5408	CERAMIC 1U K 10V
C2851	403 175 4505	ELECT 47U M 6.3V
C2852	403 316 5408	CERAMIC 1U K 10V
C2854	403 316 5408	CERAMIC 1U K 10V
C2860	403 316 5408	CERAMIC 1U K 10V
C2872	403 316 5408	CERAMIC 1U K 10V
C2873	403 316 5408	CERAMIC 1U K 10V
C3100	403 314 5905	CERAMIC 0.47U K 16V
C3101	403 205 7803	TA-SOLID 2.2U M 16V
C3102	403 205 7803	TA-SOLID 2.2U M 16V
C3104	403 205 7803	TA-SOLID 2.2U M 16V
C3106	403 205 7803	TA-SOLID 2.2U M 16V
C3107	403 205 7803	TA-SOLID 2.2U M 16V
C3108	403 205 7803	TA-SOLID 2.2U M 16V
C3109	403 205 7803	TA-SOLID 2.2U M 16V
C3110	403 314 5905	CERAMIC 0.47U K 16V
C3111	403 314 5905	CERAMIC 0.47U K 16V
C3112	403 162 4709	ELECT 10U M 16V
C3113	403 314 5905	CERAMIC 0.47U K 16V
C3121	403 162 4709	ELECT 10U M 16V
C3131	403 162 4709	ELECT 10U M 16V
C3151	403 280 0607	ELECT 220U M 6.3V
	403 322 7809	ELECT 220U M 6.3V
C3152	403 280 0607	ELECT 220U M 6.3V
	403 322 7809	ELECT 220U M 6.3V
C3153	403 314 5905	CERAMIC 0.47U K 16V
C3161	403 175 4505	ELECT 47U M 6.3V
C3162	403 314 5905	CERAMIC 0.47U K 16V
C3163	403 071 6504	CERAMIC 220P K 50V
C3171	403 314 5905	CERAMIC 0.47U K 16V
C3172	403 175 4505	ELECT 47U M 6.3V
C3173	403 314 5905	CERAMIC 0.47U K 16V
C3174	403 314 5905	CERAMIC 0.47U K 16V
C3176	403 013 3004	CERAMIC 150P J 50V
RESISTOR		
RB2851	645 025 5380	R-NETWORK 10KX4 1/16W
	645 026 8014	R-NETWORK 10KX4 1/16W
RB2881	645 025 5380	R-NETWORK 10KX4 1/16W

【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	645 026 8014	R-NETWORK 10KX4 1/16W	R2139	401 038 9506	MT-GLAZE 75 JA 1/10W
RB3101	645 025 5397	R-NETWORK 100KX4 1/16W	R2141	401 037 7909	MT-GLAZE 1.5K JA 1/10W
	645 026 8021	R-NETWORK 100KX4 1/16W	R2143	401 038 0800	MT-GLAZE 22K JA 1/10W
R1001	401 037 7800	MT-GLAZE 150 JA 1/10W	R2144	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1002	401 037 7800	MT-GLAZE 150 JA 1/10W	R2151	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1003	401 037 7800	MT-GLAZE 150 JA 1/10W	R2152	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1006	401 037 7800	MT-GLAZE 150 JA 1/10W	R2153	401 037 5400	MT-GLAZE 1K JA 1/10W
R1007	401 037 7800	MT-GLAZE 150 JA 1/10W	R2154	401 147 8704	MT-GLAZE 62 FA 1/10W
R1008	401 037 7800	MT-GLAZE 150 JA 1/10W	R2155	401 037 5202	MT-GLAZE 100 JA 1/10W
R1011	401 037 5202	MT-GLAZE 100 JA 1/10W	R2156	401 178 9008	MT-GLAZE 120 FA 1/10W
R1012	401 037 5202	MT-GLAZE 100 JA 1/10W	R2157	401 147 8704	MT-GLAZE 62 FA 1/10W
R1013	401 037 5202	MT-GLAZE 100 JA 1/10W	R2158	401 178 9008	MT-GLAZE 120 FA 1/10W
R1014	401 037 5202	MT-GLAZE 100 JA 1/10W	R2159	401 037 5400	MT-GLAZE 1K JA 1/10W
R1015	401 037 5202	MT-GLAZE 100 JA 1/10W	R2161	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1016	401 037 7800	MT-GLAZE 150 JA 1/10W	R2162	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1017	401 037 7800	MT-GLAZE 150 JA 1/10W	R2163	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1018	401 037 7800	MT-GLAZE 150 JA 1/10W	R2164	401 147 8704	MT-GLAZE 62 FA 1/10W
R1019	401 037 5202	MT-GLAZE 100 JA 1/10W	R2166	401 178 9008	MT-GLAZE 120 FA 1/10W
R1020	401 037 5202	MT-GLAZE 100 JA 1/10W	R2167	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R1021	401 037 7800	MT-GLAZE 150 JA 1/10W	R2168	401 037 5400	MT-GLAZE 1K JA 1/10W
R1022	401 037 7800	MT-GLAZE 150 JA 1/10W	R2171	401 037 5608	MT-GLAZE 10K JA 1/10W
R1023	401 037 7800	MT-GLAZE 150 JA 1/10W	R2172	401 037 5608	MT-GLAZE 10K JA 1/10W
R1026	401 037 5202	MT-GLAZE 100 JA 1/10W	R2173	401 037 5608	MT-GLAZE 10K JA 1/10W
R1027	401 037 5202	MT-GLAZE 100 JA 1/10W	R2174	401 037 5400	MT-GLAZE 1K JA 1/10W
R1028	401 037 5202	MT-GLAZE 100 JA 1/10W	R2176	401 037 5608	MT-GLAZE 10K JA 1/10W
R1051	401 038 6604	MT-GLAZE 470K JA 1/10W	R2191	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1052	401 038 6604	MT-GLAZE 470K JA 1/10W	R2192	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1053	401 038 6604	MT-GLAZE 470K JA 1/10W	R2193	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1054	401 038 6604	MT-GLAZE 470K JA 1/10W	R2196	401 037 5202	MT-GLAZE 100 JA 1/10W
R1056	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2197	401 037 5202	MT-GLAZE 100 JA 1/10W
R1057	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2198	401 037 5202	MT-GLAZE 100 JA 1/10W
R1058	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2664	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1059	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2669	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1061	401 037 7800	MT-GLAZE 150 JA 1/10W	R2671	401 037 5202	MT-GLAZE 100 JA 1/10W
R1062	401 037 7800	MT-GLAZE 150 JA 1/10W	R2672	401 038 7809	MT-GLAZE 56K JA 1/10W
R1063	401 038 6604	MT-GLAZE 470K JA 1/10W	R2673	401 038 6000	MT-GLAZE 43K JA 1/10W
R1064	401 038 6604	MT-GLAZE 470K JA 1/10W	R2680	401 038 5904	MT-GLAZE 4.3K JA 1/10W
R1066	401 037 5202	MT-GLAZE 100 JA 1/10W	R2690	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1067	401 037 5202	MT-GLAZE 100 JA 1/10W	R2692	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1071	401 038 6604	MT-GLAZE 470K JA 1/10W	R2693	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1073	401 037 5707	MT-GLAZE 100K JA 1/10W	R2800	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1074	401 037 5707	MT-GLAZE 100K JA 1/10W	R2801	401 037 5608	MT-GLAZE 10K JA 1/10W
R1075	401 038 9506	MT-GLAZE 75 JA 1/10W	R2802	401 037 5608	MT-GLAZE 10K JA 1/10W
R1076	401 037 5202	MT-GLAZE 100 JA 1/10W	R2803	401 037 5608	MT-GLAZE 10K JA 1/10W
R1077	401 037 5202	MT-GLAZE 100 JA 1/10W	R2804	401 037 5608	MT-GLAZE 10K JA 1/10W
R1081	401 037 7800	MT-GLAZE 150 JA 1/10W	R2805	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1082	401 037 7800	MT-GLAZE 150 JA 1/10W	R2806	401 037 5608	MT-GLAZE 10K JA 1/10W
R1083	401 037 7800	MT-GLAZE 150 JA 1/10W	R2807	401 037 5608	MT-GLAZE 10K JA 1/10W
R1084	401 037 7800	MT-GLAZE 150 JA 1/10W	R2808	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1086	401 037 5202	MT-GLAZE 100 JA 1/10W	R2809	401 037 5202	MT-GLAZE 100 JA 1/10W
R1092	403 314 5905	CERAMIC 0.47U K 16V	R2810	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1093	403 314 5905	CERAMIC 0.47U K 16V	R2811	401 037 5608	MT-GLAZE 10K JA 1/10W
R2038	401 038 9506	MT-GLAZE 75 JA 1/10W	R2812	401 037 5608	MT-GLAZE 10K JA 1/10W
R2101	401 038 0800	MT-GLAZE 22K JA 1/10W	R2813	401 037 5608	MT-GLAZE 10K JA 1/10W
R2102	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R2814	401 037 5608	MT-GLAZE 10K JA 1/10W
R2103	401 037 5202	MT-GLAZE 100 JA 1/10W	R2815	401 037 5202	MT-GLAZE 100 JA 1/10W
R2104	401 037 5202	MT-GLAZE 100 JA 1/10W	R2816	401 037 5608	MT-GLAZE 10K JA 1/10W
R2105	401 037 5202	MT-GLAZE 100 JA 1/10W	R2818	401 037 5608	MT-GLAZE 10K JA 1/10W
R2106	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2819	401 038 3702	MT-GLAZE 33K JA 1/10W
R2107	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2850	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2108	401 037 5103	MT-GLAZE 10 JA 1/10W	R2856	401 037 5608	MT-GLAZE 10K JA 1/10W
R2112	401 037 5103	MT-GLAZE 10 JA 1/10W	R2868	401 037 5608	MT-GLAZE 10K JA 1/10W
R2114	401 037 5103	MT-GLAZE 10 JA 1/10W	R2869	401 038 3702	MT-GLAZE 33K JA 1/10W
R2116	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2871	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2117	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2872	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2123	401 158 6805	MT-GLAZE 10 FA 1/10W	R2873	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2127	401 158 6805	MT-GLAZE 10 FA 1/10W	R2883	401 037 5608	MT-GLAZE 10K JA 1/10W
R2128	401 158 6805	MT-GLAZE 10 FA 1/10W	R2884	401 037 5608	MT-GLAZE 10K JA 1/10W
R2133	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R3106	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R2134	401 038 9506	MT-GLAZE 75 JA 1/10W	R3107	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R2137	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R3109	401 037 5707	MT-GLAZE 100K JA 1/10W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R3111	401 037 5707	MT-GLAZE 100K JA 1/10W
R3112	401 037 5707	MT-GLAZE 100K JA 1/10W
R3113	401 037 5202	MT-GLAZE 100 JA 1/10W
R3114	401 037 5202	MT-GLAZE 100 JA 1/10W
R3117	401 037 5608	MT-GLAZE 10K JA 1/10W
R3118	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R3119	401 038 6307	MT-GLAZE 470 JA 1/10W
R3121	401 038 0701	MT-GLAZE 2. 2K JA 1/10W
R3122	401 038 9001	MT-GLAZE 680 JA 1/10W
R3126	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R3127	401 037 5202	MT-GLAZE 100 JA 1/10W
R3128	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R3129	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R3131	401 038 0701	MT-GLAZE 2. 2K JA 1/10W
R3132	401 038 9001	MT-GLAZE 680 JA 1/10W
R3136	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R3137	401 037 5202	MT-GLAZE 100 JA 1/10W
R3138	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R3139	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R3150	401 037 5400	MT-GLAZE 1K JA 1/10W
R3151	401 037 8005	MT-GLAZE 15K JA 1/10W
R3152	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R3155	401 037 5202	MT-GLAZE 100 JA 1/10W
R3156	401 037 5202	MT-GLAZE 100 JA 1/10W
R3157	401 037 5202	MT-GLAZE 100 JA 1/10W
R3158	401 037 5202	MT-GLAZE 100 JA 1/10W
R3159	401 037 5202	MT-GLAZE 100 JA 1/10W
R3160	401 037 5202	MT-GLAZE 100 JA 1/10W
R3161	401 038 2200	MT-GLAZE 27K JA 1/10W
R3162	401 037 9309	MT-GLAZE 18K JA 1/10W
R3163	401 038 6307	MT-GLAZE 470 JA 1/10W
R3164	401 038 6307	MT-GLAZE 470 JA 1/10W
R3165	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R3166	401 038 3504	MT-GLAZE 330 JA 1/10W
R3167	401 038 7502	MT-GLAZE 56 JA 1/10W
R3168	401 038 6307	MT-GLAZE 470 JA 1/10W
R3169	401 037 5202	MT-GLAZE 100 JA 1/10W
R3171	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R3172	401 037 5608	MT-GLAZE 10K JA 1/10W
R3173	401 037 5608	MT-GLAZE 10K JA 1/10W
R3174	401 037 5608	MT-GLAZE 10K JA 1/10W
R3175	401 037 5202	MT-GLAZE 100 JA 1/10W
R3176	401 037 5400	MT-GLAZE 1K JA 1/10W
R3177	401 037 5400	MT-GLAZE 1K JA 1/10W
R3178	401 037 5400	MT-GLAZE 1K JA 1/10W
R3179	401 037 5400	MT-GLAZE 1K JA 1/10W
R3181	401 037 6704	MT-GLAZE 1. 2K JA 1/10W
R3182	401 038 3504	MT-GLAZE 330 JA 1/10W
R3183	401 038 6307	MT-GLAZE 470 JA 1/10W
R3184	401 038 7502	MT-GLAZE 56 JA 1/10W
R3186	401 038 6307	MT-GLAZE 470 JA 1/10W
R3187	401 038 9001	MT-GLAZE 680 JA 1/10W
R3188	401 038 9001	MT-GLAZE 680 JA 1/10W
COIL		
L1001	645 024 0669	FILTER, EMI 20PF
L1002	645 024 0669	FILTER, EMI 20PF
L1003	645 024 0669	FILTER, EMI 20PF
L1004	645 025 0637	FILTER, EMI 190PF
L1006	645 025 0637	FILTER, EMI 190PF
L1007	645 024 0669	FILTER, EMI 20PF
L1008	645 024 0669	FILTER, EMI 20PF
L1009	645 024 0669	FILTER, EMI 20PF
L1011	645 025 0637	FILTER, EMI 190PF
L1012	645 025 0637	FILTER, EMI 190PF
L1013	645 025 0637	FILTER, EMI 190PF
L1014	645 025 0637	FILTER, EMI 190PF
L1016	645 024 0669	FILTER, EMI 20PF
L1017	645 024 0669	FILTER, EMI 20PF
L1018	645 024 0669	FILTER, EMI 20PF
L1041	645 014 2659	FILTER, EMI 10MHZ
L1042	645 014 2659	FILTER, EMI 10MHZ
L1043	645 014 2659	FILTER, EMI 10MHZ
L1044	645 014 2659	FILTER, EMI 10MHZ
L1051	645 008 4904	INDUCTOR, 5. 6U K
L1052	645 002 3910	FILTER, EMI 100MHZ
L1053	645 014 2659	FILTER, EMI 10MHZ
L1054	645 014 2659	FILTER, EMI 10MHZ
L1056	645 008 4904	INDUCTOR, 5. 6U K
L1057	645 002 3910	FILTER, EMI 100MHZ
L1058	645 014 2659	FILTER, EMI 10MHZ
L1059	645 014 2659	FILTER, EMI 10MHZ
L1061	645 014 2659	FILTER, EMI 10MHZ
L1062	645 002 3910	FILTER, EMI 100MHZ
L1063	645 002 3910	FILTER, EMI 100MHZ
L1064	645 008 4904	INDUCTOR, 5. 6U K
L1066	645 008 4904	INDUCTOR, 5. 6U K
L1067	645 023 2978	INDUCTOR, 800 OHM
L1068	645 023 2978	INDUCTOR, 800 OHM
L1070	645 014 2659	FILTER, EMI 10MHZ
L1071	645 014 2659	FILTER, EMI 10MHZ
L1072	645 014 2659	FILTER, EMI 10MHZ
L1073	645 014 2659	FILTER, EMI 10MHZ
L1074	645 014 2659	FILTER, EMI 10MHZ
L1075	645 014 2659	FILTER, EMI 10MHZ
L1076	645 014 2659	FILTER, EMI 10MHZ
L1077	645 014 2659	FILTER, EMI 10MHZ
L1078	645 014 2659	FILTER, EMI 10MHZ
L1079	645 014 2659	FILTER, EMI 10MHZ
L1080	645 014 2659	FILTER, EMI 10MHZ
L1081	645 014 2659	FILTER, EMI 10MHZ
L1082	645 014 2659	FILTER, EMI 10MHZ
L1083	645 014 2659	FILTER, EMI 10MHZ
L1084	645 014 2659	FILTER, EMI 10MHZ
L1085	645 014 2659	FILTER, EMI 10MHZ
L1086	645 014 2659	FILTER, EMI 10MHZ
L1087	645 014 2659	FILTER, EMI 10MHZ
L1088	645 014 2659	FILTER, EMI 10MHZ
L1089	645 014 2659	FILTER, EMI 10MHZ
L1091	645 025 5335	FILTER, EMI 2200PF
L1092	645 025 5335	FILTER, EMI 2200PF
L1093	645 025 5335	FILTER, EMI 2200PF
L1094	645 025 5335	FILTER, EMI 2200PF
L2101	401 036 3605	MT-GLAZE 3. 3 JA 1/8W
L2102	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
L2151	401 036 3605	MT-GLAZE 3. 3 JA 1/8W
L2152	401 035 4108	MT-GLAZE 0. 000 ZA 1/8W
DIODE		
D1001	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1002	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1003	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1006	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1007	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1008	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1009	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1011	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1012	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1013	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1016	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1017	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1018	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1019	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1020	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
D1021	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1022	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1023	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1024	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1025	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1026	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1027	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1028	407 187 8605	ZENER DIODE UDZ20B-TE-17

【 Electrical Parts List 】

Ref. No.	Part No.	Description
D1029	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1036	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1037	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1038	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1039	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1041	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1042	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1043	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1044	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1045	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1046	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1047	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1048	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1049	407 187 8605	ZENER DIODE UDZ20B-TE-17
D1051	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1052	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1053	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1054	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1056	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1057	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1058	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1059	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1061	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1062	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1063	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1064	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1066	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1067	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1068	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1069	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1071	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1072	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1073	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1074	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1081	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1082	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1083	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1084	407 179 0501	ZENER DIODE UDZ6.2B-TE-17
D1086	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1091	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1092	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1093	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1094	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1096	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1097	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1098	407 187 8209	ZENER DIODE UDZ12B-TE-17
D1099	407 187 8209	ZENER DIODE UDZ12B-TE-17
D2051	407 149 0807	DIODE 1SS355-TE-17
D2801	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D2851	407 149 0807	DIODE 1SS355-TE-17
D2852	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D3101	407 179 1003	ZENER DIODE UDZ15B-TE17
D3102	407 179 1003	ZENER DIODE UDZ15B-TE17
D3104	407 179 1003	ZENER DIODE UDZ15B-TE17
D3106	407 179 1003	ZENER DIODE UDZ15B-TE17
D3107	407 179 1003	ZENER DIODE UDZ15B-TE17
D3108	407 179 1003	ZENER DIODE UDZ15B-TE17
D3122	407 187 8209	ZENER DIODE UDZ12B-TE-17
D3123	407 149 0807	DIODE 1SS355-TE-17
D3132	407 187 8209	ZENER DIODE UDZ12B-TE-17
D3133	407 149 0807	DIODE 1SS355-TE-17
D3151	407 149 0807	DIODE 1SS355-TE-17
D3152	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
K10A	645 009 8093	SOCKET, D-SUB 15P
K10B	645 009 8093	SOCKET, D-SUB 15P
K10C	645 009 8093	SOCKET, D-SUB 15P
K10D	645 021 1355	SOCKET, DIN 12P
K10DA	610 266 0692	EARTH BRKT CP-M6FA
K10E	645 021 1355	SOCKET, DIN 12P
K10EA	610 266 0692	EARTH BRKT CP-M6FA
K10F	645 000 2571	JACK, PHONE D8.0
K10FA	610 266 0715	EARTH BRKT MIC-M6FA
K10G	645 000 2571	JACK, PHONE D8.0
K10GA	610 266 0715	EARTH BRKT MIC-M6FA
K10H	610 010 8295	SOCKET, DIN 4P
K10HA	610 266 0708	EARTH BRKT ST-M6FA
K10J	645 032 6950	JACK, RCA-3
K10K	645 032 6950	JACK, RCA-3
K10L	645 004 2904	PLUG, 4P
K10M	645 004 2898	PLUG, 3P
K10N	645 004 2898	PLUG, 3P
K10P	645 025 0347	SOCKET, PWB-PWB 54P
K10Q	645 025 0347	SOCKET, PWB-PWB 54P
K10R	645 005 8127	PLUG, 6P
K10S	645 006 0861	PLUG, 7P
K10U	645 017 1680	JACK, PHONE D3.6
X2801	645 021 1218	OSC, CERAMIC 8.00MHZ
X2802	645 021 1218	OSC, CERAMIC 8.00MHZ
X2852	645 021 1218	OSC, CERAMIC 8.00MHZ
X2871	645 024 8566	OSC, CERAMIC 6.00MHZ

610 276 7766 ASSY,PWB,VIDEO M6SA
1AA0B10C2040B

Ref. No.	Part No.	Description
TRANSISTOR		
Q101	405 002 0308	TR 2SA1037K T146 R
Q102	405 002 0308	TR 2SA1037K T146 R
Q106	405 035 1105	TR FMW1-T98
Q107	405 035 1105	TR FMW1-T98
Q108	405 035 1105	TR FMW1-T98
Q1101	405 014 4509	TR 2SC2412K T146 R
Q111	405 002 0308	TR 2SA1037K T146 R
Q112	405 014 4509	TR 2SC2412K T146 R
Q113	405 014 4509	TR 2SC2412K T146 R
Q1131	405 002 0308	TR 2SA1037K T146 R
Q1132	405 002 0308	TR 2SA1037K T146 R
Q114	405 014 4509	TR 2SC2412K T146 R
Q1152	405 014 4509	TR 2SC2412K T146 R
Q1153	405 014 4509	TR 2SC2412K T146 R
Q121	405 002 0308	TR 2SA1037K T146 R
Q122	405 002 0308	TR 2SA1037K T146 R
Q123	405 002 0308	TR 2SA1037K T146 R
Q124	405 014 4509	TR 2SC2412K T146 R
Q161	405 014 4509	TR 2SC2412K T146 R
Q171	405 002 0308	TR 2SA1037K T146 R
Q191	405 014 4509	TR 2SC2412K T146 R
Q2301	405 002 0308	TR 2SA1037K T146 R
Q2302	405 002 0308	TR 2SA1037K T146 R
Q2303	405 014 4509	TR 2SC2412K T146 R
Q2304	405 014 4509	TR 2SC2412K T146 R
Q2305	405 014 4509	TR 2SC2412K T146 R
Q2306	405 014 4509	TR 2SC2412K T146 R
Q2307	405 014 4509	TR 2SC2412K T146 R
Q2308	405 002 0308	TR 2SA1037K T146 R
Q2309	405 014 4509	TR 2SC2412K T146 R
Q2361	405 002 0308	TR 2SA1037K T146 R
Q2371	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC101	409 404 3509	IC CXA20760
IC102	409 408 4205	IC TDA8395T/N3
IC104	409 383 1602	IC TDA4665T/V4-T
	409 435 3806	IC TDA4665T/V5T
IC106	409 346 0703	IC MC14577CFL1
IC107	409 051 2900	IC TC4053BF-TP1
IC1101	409 350 3400	IC LT1253CS8
IC1131	409 436 3706	IC TDA9178T/N1
IC1151	409 284 4306	IC LA7217M-TE-R
IC2301	409 418 9504	IC TC9090AF
IC2302	409 350 3400	IC LT1253CS8

【 Electrical Parts List 】

Ref. No.	Part No.	Description
IC2303	409 051 2900	IC TC4053BF-TP1
CAPACITOR		
C101	403 192 5905	CERAMIC 0.1U K 25V
C102	403 192 5905	CERAMIC 0.1U K 25V
C103	403 192 5905	CERAMIC 0.1U K 25V
C104	403 192 5905	CERAMIC 0.1U K 25V
C106	403 192 5905	CERAMIC 0.1U K 25V
C107	403 314 5905	CERAMIC 0.47U K 16V
C108	403 175 4505	ELECT 47U M 6.3V
C109	403 314 5905	CERAMIC 0.47U K 16V
C1101	403 314 5905	CERAMIC 0.47U K 16V
C1102	403 018 0503	CERAMIC 22P J 50V
C1104	403 130 3109	CERAMIC 0.047U K 50V
C111	403 069 9500	CERAMIC 0.01U Z 50V
C1111	403 026 2803	CERAMIC 47P J 50V
C1112	403 314 5905	CERAMIC 0.47U K 16V
C112	403 069 9500	CERAMIC 0.01U Z 50V
C113	403 069 9500	CERAMIC 0.01U Z 50V
C1131	403 175 4109	ELECT 22U M 16V
C1132	403 070 2606	CERAMIC 0.1U Z 50V
C1133	403 070 2606	CERAMIC 0.1U Z 50V
C114	403 215 2508	CERAMIC 0.056U K 50V
C1151	403 162 6208	ELECT 1U M 50V
C1152	403 192 5905	CERAMIC 0.1U K 25V
C1153	403 175 4505	ELECT 47U M 6.3V
C1154	403 215 2508	CERAMIC 0.056U K 50V
C1155	403 072 1607	CERAMIC 0.022U K 50V
C1156	403 075 4803	CERAMIC 820P K 50V
C1157	403 069 5601	CERAMIC 0.01U K 50V
C1158	403 162 6208	ELECT 1U M 50V
C1159	403 175 4505	ELECT 47U M 6.3V
C116	403 069 5601	CERAMIC 0.01U K 50V
C1161	403 070 2606	CERAMIC 0.1U Z 50V
C117	403 162 4709	ELECT 10U M 16V
C118	403 192 5905	CERAMIC 0.1U K 25V
C119	403 192 5905	CERAMIC 0.1U K 25V
C121	403 192 5905	CERAMIC 0.1U K 25V
C122	403 192 5905	CERAMIC 0.1U K 25V
C123	403 314 5905	CERAMIC 0.47U K 16V
C124	403 192 5905	CERAMIC 0.1U K 25V
C126	403 073 9107	CERAMIC 4700P K 50V
C127	403 162 6604	ELECT 2.2U M 50V
C128	403 069 5601	CERAMIC 0.01U K 50V
C131	403 175 4109	ELECT 22U M 16V
C132	403 314 5905	CERAMIC 0.47U K 16V
C133	403 314 5905	CERAMIC 0.47U K 16V
C134	403 314 5905	CERAMIC 0.47U K 16V
C136	403 069 5601	CERAMIC 0.01U K 50V
C141	403 314 5905	CERAMIC 0.47U K 16V
C142	403 175 4109	ELECT 22U M 16V
C143	403 162 4709	ELECT 10U M 16V
C144	403 266 8207	NP-ELECT 10U M 16V
C146	403 314 5905	CERAMIC 0.47U K 16V
C147	403 266 8207	NP-ELECT 10U M 16V
C148	403 314 5905	CERAMIC 0.47U K 16V
C149	403 314 5905	CERAMIC 0.47U K 16V
C151	403 073 7301	CERAMIC 470P K 50V
C152	403 067 7805	MT-COMPO 0.47U J 50V
C153	403 012 1100	CERAMIC 13P J 50V
C154	403 012 1100	CERAMIC 13P J 50V
C156	403 010 8507	CERAMIC 12P J 50V
C157	403 069 9500	CERAMIC 0.01U Z 50V
C158	403 070 0909	CERAMIC 0.1U K 50V
C161	403 314 5905	CERAMIC 0.47U K 16V
C162	403 162 4709	ELECT 10U M 16V
C163	403 192 5905	CERAMIC 0.1U K 25V
C164	403 192 5905	CERAMIC 0.1U K 25V
C165	403 314 5905	CERAMIC 0.47U K 16V
C166	403 192 5905	CERAMIC 0.1U K 25V
C167	403 018 0503	CERAMIC 22P J 50V

Ref. No.	Part No.	Description
C176	403 162 4709	ELECT 10U M 16V
C177	403 192 5905	CERAMIC 0.1U K 25V
C178	403 192 5905	CERAMIC 0.1U K 25V
C179	403 192 5905	CERAMIC 0.1U K 25V
C181	403 162 4709	ELECT 10U M 16V
C182	403 314 5905	CERAMIC 0.47U K 16V
C185	403 069 9500	CERAMIC 0.01U Z 50V
C189	403 069 9500	CERAMIC 0.01U Z 50V
C191	403 162 4709	ELECT 10U M 16V
C192	403 162 4709	ELECT 10U M 16V
C194	403 314 5905	CERAMIC 0.47U K 16V
C195	403 069 9500	CERAMIC 0.01U Z 50V
C196	403 314 5905	CERAMIC 0.47U K 16V
C197	403 314 5905	CERAMIC 0.47U K 16V
C198	403 162 4709	ELECT 10U M 16V
C199	403 316 5408	CERAMIC 1U K 10V
C2304	403 207 0505	CERAMIC 0.47U Z 16V
C2306	403 175 4109	ELECT 22U M 16V
C2307	403 018 0503	CERAMIC 22P J 50V
C2308	403 070 2606	CERAMIC 0.1U Z 50V
C2316	403 028 4102	CERAMIC 56P J 50V
C2317	403 022 8205	CERAMIC 33P J 50V
C2318	403 070 0909	CERAMIC 0.1U K 50V
C2321	403 070 2606	CERAMIC 0.1U Z 50V
C2322	403 175 4109	ELECT 22U M 16V
C2331	403 069 5601	CERAMIC 0.01U K 50V
C2332	403 070 2606	CERAMIC 0.1U Z 50V
C2333	403 175 4505	ELECT 47U M 6.3V
C2334	403 314 5905	CERAMIC 0.47U K 16V
C2336	403 069 5601	CERAMIC 0.01U K 50V
C2337	403 069 5601	CERAMIC 0.01U K 50V
C2338	403 175 4505	ELECT 47U M 6.3V
C2339	403 175 4505	ELECT 47U M 6.3V
C2341	403 070 2606	CERAMIC 0.1U Z 50V
C2342	403 070 2606	CERAMIC 0.1U Z 50V
C2343	403 175 4505	ELECT 47U M 6.3V
C2344	403 011 4904	CERAMIC 120P J 50V
C2346	403 069 5601	CERAMIC 0.01U K 50V
C2347	403 014 9203	CERAMIC 180P J 50V
C2348	403 069 5601	CERAMIC 0.01U K 50V
C2349	403 069 5601	CERAMIC 0.01U K 50V
C2352	403 069 5601	CERAMIC 0.01U K 50V
C2354	403 069 5601	CERAMIC 0.01U K 50V
C2356	403 175 4505	ELECT 47U M 6.3V
C2357	403 070 2606	CERAMIC 0.1U Z 50V
C2361	403 018 0503	CERAMIC 22P J 50V
C2362	403 162 4709	ELECT 10U M 16V
C2373	403 162 4709	ELECT 10U M 16V
C2382	403 018 0503	CERAMIC 22P J 50V
C2383	403 070 2606	CERAMIC 0.1U Z 50V
C2384	403 175 4109	ELECT 22U M 16V
RESISTOR		
R100	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R101	401 037 5400	MT-GLAZE 1K JA 1/10W
R102	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R103	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R107	401 037 5400	MT-GLAZE 1K JA 1/10W
R108	401 037 5400	MT-GLAZE 1K JA 1/10W
R109	401 189 8304	MT-GLAZE 180 JA 1/3W
R1101	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1102	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1104	401 037 5400	MT-GLAZE 1K JA 1/10W
R1106	401 092 2208	MT-GLAZE 10K FA 1/10W
R1107	401 112 7602	MT-GLAZE 1K FA 1/10W
R1108	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R1109	401 037 5608	MT-GLAZE 10K JA 1/10W
R111	401 189 8304	MT-GLAZE 180 JA 1/3W
R1111	401 037 5608	MT-GLAZE 10K JA 1/10W
R1112	401 037 5400	MT-GLAZE 1K JA 1/10W
R1113	401 037 5608	MT-GLAZE 10K JA 1/10W

【 Electrical Parts List 】

Ref. No.	Part No.	Description
R1114	401 038 3603	MT-GLAZE 3. 3K JA 1/10W
R1116	401 038 6505	MT-GLAZE 47K JA 1/10W
R112	401 037 9200	MT-GLAZE 1. 8K JA 1/10W
R113	401 038 0701	MT-GLAZE 2. 2K JA 1/10W
R1131	401 037 5202	MT-GLAZE 100 JA 1/10W
R1132	401 037 5707	MT-GLAZE 100K JA 1/10W
R1133	401 037 5707	MT-GLAZE 100K JA 1/10W
R1134	401 037 5707	MT-GLAZE 100K JA 1/10W
R1135	401 037 5400	MT-GLAZE 1K JA 1/10W
R1136	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R1138	401 037 7800	MT-GLAZE 150 JA 1/10W
R1139	401 037 7800	MT-GLAZE 150 JA 1/10W
R114	401 037 5608	MT-GLAZE 10K JA 1/10W
R1141	401 037 5202	MT-GLAZE 100 JA 1/10W
R1143	401 037 5400	MT-GLAZE 1K JA 1/10W
R1144	401 037 5202	MT-GLAZE 100 JA 1/10W
R1146	401 037 5400	MT-GLAZE 1K JA 1/10W
R1149	401 258 7504	MT-GLAZE 12 JA 1/3W
R1151	401 037 5103	MT-GLAZE 10 JA 1/10W
R1152	401 037 8104	MT-GLAZE 150K JA 1/10W
R1154	401 037 5400	MT-GLAZE 1K JA 1/10W
R1155	401 038 7601	MT-GLAZE 560 JA 1/10W
R1156	401 038 5102	MT-GLAZE 3. 9K JA 1/10W
R1158	401 037 5400	MT-GLAZE 1K JA 1/10W
R1159	401 037 5400	MT-GLAZE 1K JA 1/10W
R116	401 037 5400	MT-GLAZE 1K JA 1/10W
R1161	401 037 5400	MT-GLAZE 1K JA 1/10W
R117	401 038 6307	MT-GLAZE 470 JA 1/10W
R118	401 038 6307	MT-GLAZE 470 JA 1/10W
R119	401 037 5608	MT-GLAZE 10K JA 1/10W
R121	401 037 5400	MT-GLAZE 1K JA 1/10W
R122	401 038 6307	MT-GLAZE 470 JA 1/10W
R123	401 038 6307	MT-GLAZE 470 JA 1/10W
R124	401 037 5608	MT-GLAZE 10K JA 1/10W
R125	401 038 6505	MT-GLAZE 47K JA 1/10W
R126	401 037 5400	MT-GLAZE 1K JA 1/10W
R127	401 038 6307	MT-GLAZE 470 JA 1/10W
R128	401 038 6307	MT-GLAZE 470 JA 1/10W
R131	401 037 5608	MT-GLAZE 10K JA 1/10W
R132	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R133	401 037 5400	MT-GLAZE 1K JA 1/10W
R134	401 038 2101	MT-GLAZE 2. 7K JA 1/10W
R135	401 037 5202	MT-GLAZE 100 JA 1/10W
R136	401 037 5202	MT-GLAZE 100 JA 1/10W
R137	401 038 7700	MT-GLAZE 5. 6K JA 1/10W
R138	401 038 6307	MT-GLAZE 470 JA 1/10W
R139	401 037 5608	MT-GLAZE 10K JA 1/10W
R140	401 037 5103	MT-GLAZE 10 JA 1/10W
R141	401 038 3801	MT-GLAZE 330K JA 1/10W
R142	401 037 7800	MT-GLAZE 150 JA 1/10W
R143	401 038 6307	MT-GLAZE 470 JA 1/10W
R144	401 037 5400	MT-GLAZE 1K JA 1/10W
R146	401 038 3603	MT-GLAZE 3. 3K JA 1/10W
R147	401 037 5202	MT-GLAZE 100 JA 1/10W
R148	401 037 5202	MT-GLAZE 100 JA 1/10W
R151	401 037 8005	MT-GLAZE 15K JA 1/10W
R152	401 038 7601	MT-GLAZE 560 JA 1/10W
R153	401 037 9200	MT-GLAZE 1. 8K JA 1/10W
R154	401 037 5400	MT-GLAZE 1K JA 1/10W
R155	401 037 5400	MT-GLAZE 1K JA 1/10W
R157	401 038 7809	MT-GLAZE 56K JA 1/10W
R158	401 038 7809	MT-GLAZE 56K JA 1/10W
R159	401 037 5707	MT-GLAZE 100K JA 1/10W
R162	401 037 5707	MT-GLAZE 100K JA 1/10W
R163	401 037 5707	MT-GLAZE 100K JA 1/10W
R164	401 037 6902	MT-GLAZE 120K JA 1/10W
R165	401 038 0909	MT-GLAZE 220K JA 1/10W
R166	401 037 5608	MT-GLAZE 10K JA 1/10W
R167	401 037 5202	MT-GLAZE 100 JA 1/10W
R169	401 037 5202	MT-GLAZE 100 JA 1/10W
R170	401 037 5400	MT-GLAZE 1K JA 1/10W
R171	401 037 5400	MT-GLAZE 1K JA 1/10W
R172	401 037 5400	MT-GLAZE 1K JA 1/10W
R173	401 037 5400	MT-GLAZE 1K JA 1/10W
R175	401 038 5300	MT-GLAZE 39K JA 1/10W
R178	401 037 5608	MT-GLAZE 10K JA 1/10W
R179	401 240 7307	MT-GLAZE 8. 2 JA 1/3W
R181	401 037 5400	MT-GLAZE 1K JA 1/10W
R182	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R183	401 240 7307	MT-GLAZE 8. 2 JA 1/3W
R184	401 038 7809	MT-GLAZE 56K JA 1/10W
R185	401 038 5300	MT-GLAZE 39K JA 1/10W
R186	401 112 7602	MT-GLAZE 1K FA 1/10W
R187	401 112 7602	MT-GLAZE 1K FA 1/10W
R188	401 037 5608	MT-GLAZE 10K JA 1/10W
R189	401 038 0800	MT-GLAZE 22K JA 1/10W
R190	401 037 5608	MT-GLAZE 10K JA 1/10W
R191	401 147 8803	MT-GLAZE 680 FA 1/10W
R192	401 112 7602	MT-GLAZE 1K FA 1/10W
R193	401 037 5608	MT-GLAZE 10K JA 1/10W
R194	401 038 0800	MT-GLAZE 22K JA 1/10W
R195	401 037 5608	MT-GLAZE 10K JA 1/10W
R196	401 037 5202	MT-GLAZE 100 JA 1/10W
R197	401 037 5608	MT-GLAZE 10K JA 1/10W
R198	401 037 5608	MT-GLAZE 10K JA 1/10W
R199	401 037 5400	MT-GLAZE 1K JA 1/10W
R2301	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R2303	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R2311	401 038 0701	MT-GLAZE 2. 2K JA 1/10W
R2312	401 037 5400	MT-GLAZE 1K JA 1/10W
R2313	401 037 5202	MT-GLAZE 100 JA 1/10W
R2314	401 037 5400	MT-GLAZE 1K JA 1/10W
R2315	401 037 5608	MT-GLAZE 10K JA 1/10W
R2316	401 037 5608	MT-GLAZE 10K JA 1/10W
R2317	401 038 7809	MT-GLAZE 56K JA 1/10W
R2318	401 037 5608	MT-GLAZE 10K JA 1/10W
R2321	401 037 5707	MT-GLAZE 100K JA 1/10W
R2322	401 037 5400	MT-GLAZE 1K JA 1/10W
R2323	401 037 5400	MT-GLAZE 1K JA 1/10W
R2324	401 037 5202	MT-GLAZE 100 JA 1/10W
R2326	401 037 5202	MT-GLAZE 100 JA 1/10W
R2327	401 037 5400	MT-GLAZE 1K JA 1/10W
R2328	401 037 5400	MT-GLAZE 1K JA 1/10W
R2329	401 037 5400	MT-GLAZE 1K JA 1/10W
R2331	401 037 6803	MT-GLAZE 12K JA 1/10W
R2332	401 038 3603	MT-GLAZE 3. 3K JA 1/10W
R2333	401 037 5400	MT-GLAZE 1K JA 1/10W
R2334	401 037 5400	MT-GLAZE 1K JA 1/10W
R2337	401 037 7909	MT-GLAZE 1. 5K JA 1/10W
R2338	401 037 5400	MT-GLAZE 1K JA 1/10W
R2339	401 037 5400	MT-GLAZE 1K JA 1/10W
R2351	401 037 7800	MT-GLAZE 150 JA 1/10W
R2352	401 037 7800	MT-GLAZE 150 JA 1/10W
R2353	401 037 7909	MT-GLAZE 1. 5K JA 1/10W
R2354	401 037 5608	MT-GLAZE 10K JA 1/10W
R2356	401 037 5004	MT-GLAZE 0. 000 ZA 1/10W
R2357	401 039 0304	MT-GLAZE 820 JA 1/10W
R2358	401 037 5608	MT-GLAZE 10K JA 1/10W
R2359	401 037 5608	MT-GLAZE 10K JA 1/10W
R2364	401 039 0403	MT-GLAZE 8. 2K JA 1/10W
R2366	401 037 6803	MT-GLAZE 12K JA 1/10W
R2371	401 037 5400	MT-GLAZE 1K JA 1/10W
R2372	401 037 5400	MT-GLAZE 1K JA 1/10W
R2373	401 112 7602	MT-GLAZE 1K FA 1/10W
R2374	401 112 7602	MT-GLAZE 1K FA 1/10W
R2376	401 111 5005	MT-GLAZE 100K FA 1/10W
R2377	401 147 9107	MT-GLAZE 39K FA 1/10W
R2378	401 037 5400	MT-GLAZE 1K JA 1/10W

[Electrical Parts List]

Ref. No.	Part No.	Description
R2381	401 037 5202	MT-GLAZE 100 JA 1/10W
R2383	401 037 5400	MT-GLAZE 1K JA 1/10W
R2384	401 112 7602	MT-GLAZE 1K FA 1/10W
R2387	401 092 3304	MT-GLAZE 1.2K FA 1/10W
R2388	401 111 5005	MT-GLAZE 100K FA 1/10W
R2389	401 100 5207	MT-GLAZE 15K FA 1/10W
R2391	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2392	401 092 2406	MT-GLAZE 2.2K FA 1/10W
R2393	401 089 7704	MT-GLAZE 8.2K FA 1/10W
R2396	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R2397	401 112 7602	MT-GLAZE 1K FA 1/10W
R2398	401 092 2406	MT-GLAZE 2.2K FA 1/10W
R2399	401 037 5202	MT-GLAZE 100 JA 1/10W
COIL		
L2301	645 020 1776	INDUCTOR,3.3U M
L2311	645 004 2409	INDUCTOR,33U J
L2312	645 004 2430	INDUCTOR,56U J
L2331	645 020 1776	INDUCTOR,3.3U M
L2332	645 020 1776	INDUCTOR,3.3U M
L2333	645 020 1776	INDUCTOR,3.3U M
L2334	645 020 1776	INDUCTOR,3.3U M
L2361	645 025 6066	FILTER,LP 7MHZ
L2371	645 025 6066	FILTER,LP 7MHZ
L2382	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
DIODE		
D101	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
D102	407 149 0807	DIODE 1SS355-TE-17
D1101	407 149 0807	DIODE 1SS355-TE-17
D1102	407 149 0807	DIODE 1SS355-TE-17
D1103	407 149 0807	DIODE 1SS355-TE-17
D161	407 149 0807	DIODE 1SS355-TE-17
D191	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
TE4001	645 000 0409	TERMINAL
TE4002	645 000 0409	TERMINAL
TP1151	645 000 0409	TERMINAL
TP4001	645 000 0409	TERMINAL
K23P	645 025 7193	PLUG,12P
K23Q	645 012 2248	PLUG,4P
K23R	645 005 8127	PLUG,6P
K23S	645 020 7211	PLUG,7P
X101	610 012 0532	OSC,CERAMIC 500.0KHZ
X102	645 024 8801	OSC,CRYSTAL 4.433619MHZ
	645 025 1122	OSC,CRYSTAL 4.433619MHZ
X103	645 024 8788	OSC,CRYSTAL 3.579545MHZ
	645 025 1108	OSC,CRYSTAL 3.579545MHZ
X104	645 028 1372	OSC,CRYSTAL 3.575611MHZ
	645 028 1402	OSC,CRYSTAL 3.575611MHZ
X1151	645 006 3459	OSC,CERAMIC 500.0KHZ

610 276 8039 ASSY,PWB,LED M6SA
1AA0B10C2050A

Ref. No.	Part No.	Description
CAPACITOR		
C1801	403 070 2606	CERAMIC 0.1U Z 50V
C1803	403 070 2606	CERAMIC 0.1U Z 50V
C1804	403 070 2606	CERAMIC 0.1U Z 50V
RESISTOR		
R1801	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1802	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1803	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1804	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1805	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1816	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1817	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1818	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
DIODE		
D1801	407 196 9709	LED SEL4228C
D1801A	610 275 8269	HOLDER LED-M6SA
D1802	407 196 9808	LED SEL4428E
D1803	407 196 9709	LED SEL4228C
D1804	407 196 9907	LED SEL4828A
MISCELLANEOUS		
K18A	645 005 8134	PLUG,8P
K18B	645 005 7373	PLUG,3P

610 276 8046 ASSY,PWB,RC1 M6SA
1AA0B10C2050B

Ref. No.	Part No.	Description
CAPACITOR		
C1881	403 071 6504	CERAMIC 220P K 50V
C1882	403 316 5408	CERAMIC 1U K 10V
RESISTOR		
R1881	401 037 5202	MT-GLAZE 100 JA 1/10W
R1882	401 037 5202	MT-GLAZE 100 JA 1/10W
MISCELLANEOUS		
AU1881	645 034 8310	UNIT,REMOCON RECEIVER
K18D	645 005 8226	PLUG,3P

610 276 8053 ASSY,PWB,RC2 M6SA
1AA0B10C2050C

Ref. No.	Part No.	Description
CAPACITOR		
C1891	403 071 6504	CERAMIC 220P K 50V
C1892	403 316 5408	CERAMIC 1U K 10V
RESISTOR		
R1891	401 037 5202	MT-GLAZE 100 JA 1/10W
R1892	401 037 5202	MT-GLAZE 100 JA 1/10W
MISCELLANEOUS		
AU1891	645 034 8310	UNIT,REMOCON RECEIVER
K18E	645 005 8226	PLUG,3P

ACCESSORIES

Ref. No.	Part No.	Description
	645 024 6326	CABLE,INTERFACE MAC A
	or 645 026 6829	CABLE,INTERFACE SVGA MAC
	645 024 6333	CABLE,INTERFACE PS/2
	or 645 026 6836	CABLE,INTERFACE SVGA PS/2
	645 025 6349	CABLE,INTERFACE XGA SRAL
	or 645 026 6843	CABLE,INTERFACE SVGA SRAL
AA9901	645 034 6491	ASSY,REMOCON CXDP
A9901C	610 264 9444	RC-BATTERY LID-CXBM
	645 031 8207	ADAPTOR,MAC/IBM
	610 276 9845	COVER,DUST-M6SA
	645 030 6624	CABLE,INTERFACE VGA

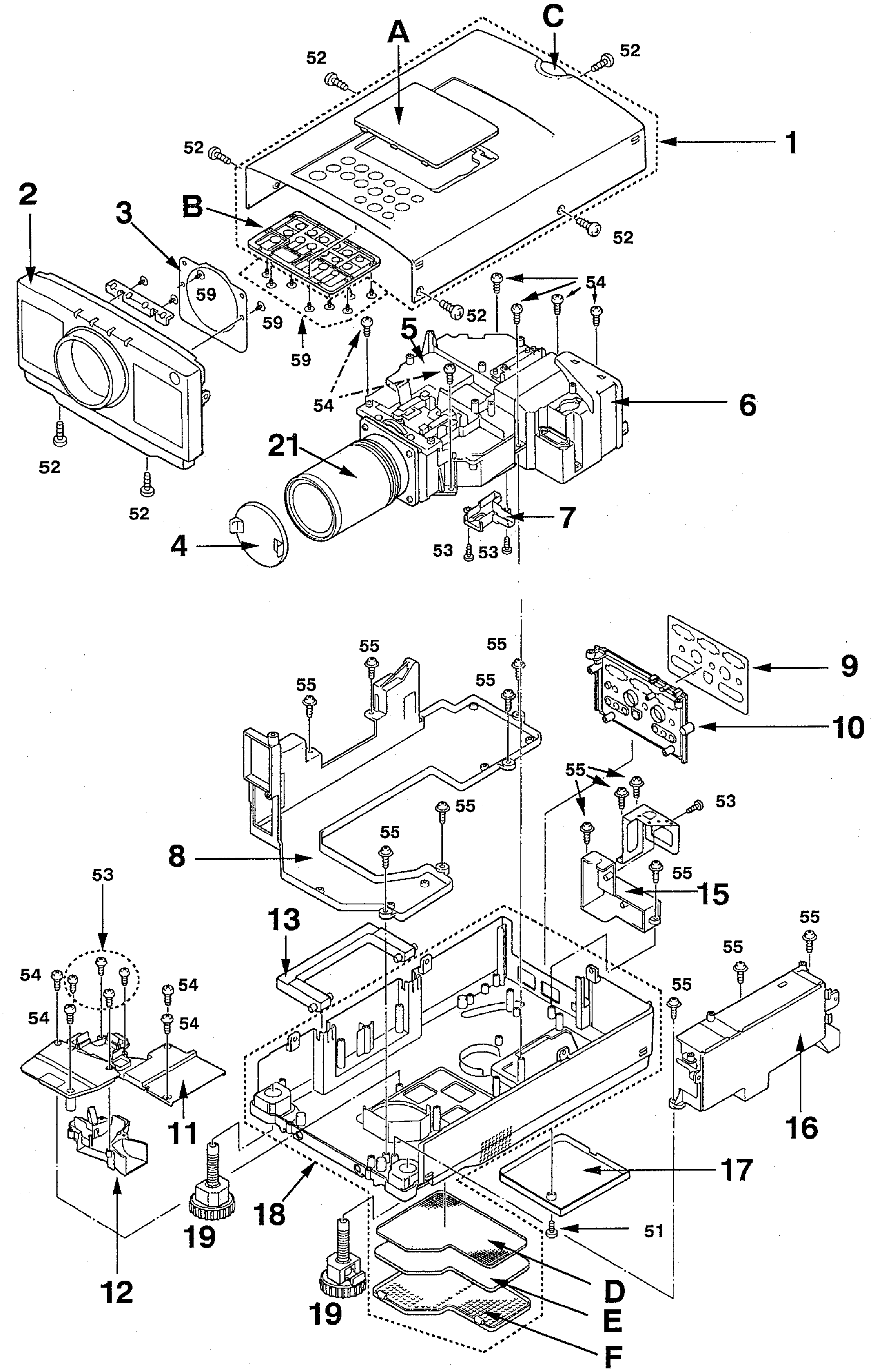
PLC-SP10E/SP10 ONLY ························ P6YA/P6YZ

Part No.	Description
610 277 1404	OWNER'S MANUAL-P6YA
610 277 1411	OWNER'S MANUAL-P6YA-D
610 277 1428	OWNER'S MANUAL-P6YA-F
610 277 1435	OWNER'S MANUAL-P6YA-I
610 277 1442	OWNER'S MANUAL-P6YA-E
⚠ 645 002 9196	CORD,POWER-3.OMK

PLC-SP10B ONLY ································ P6YC

Part No.	Description
610 277 1466	OWNER'S MANUAL-P6YC
⚠ 645 003 1137	CORD,POWER-3.OMK

【 CABINET CHASSIS & OPTICAL PARTS LIST 】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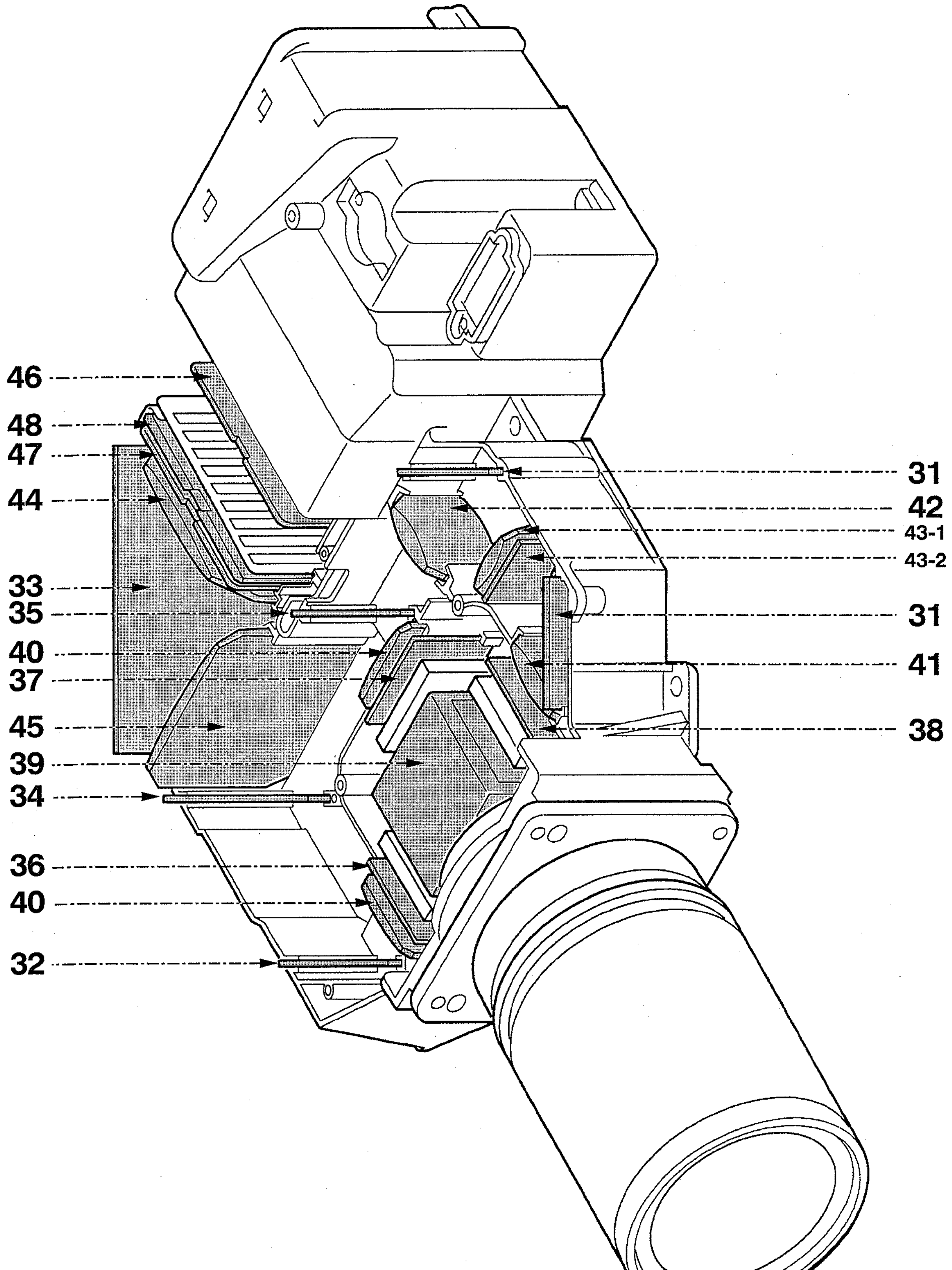
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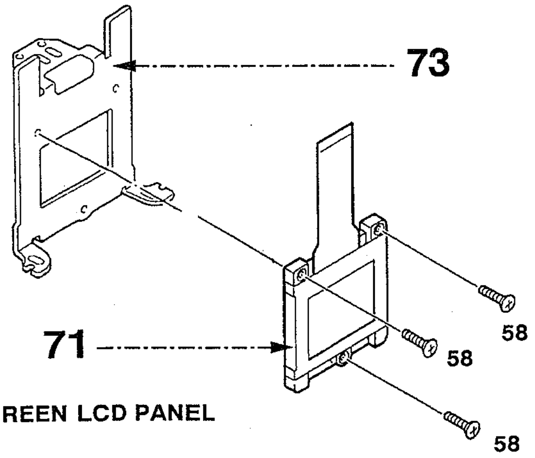
【 CABINET CHASSIS & OPTICAL PARTS LIST 】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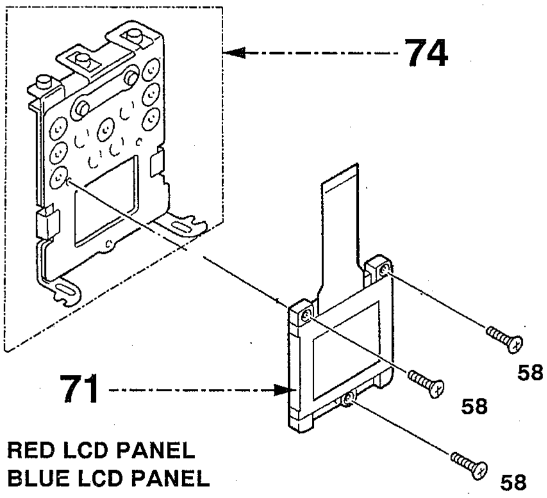
GREEN LCD PANEL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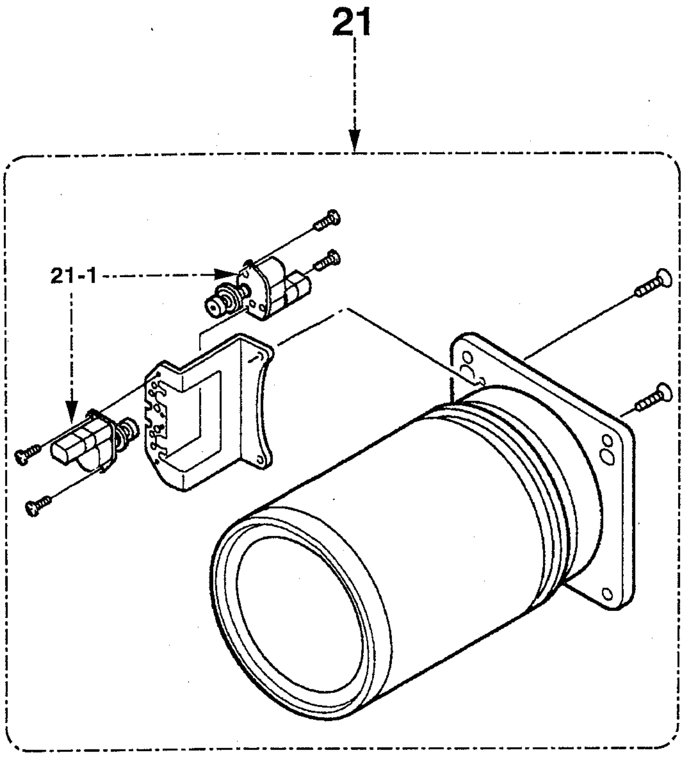
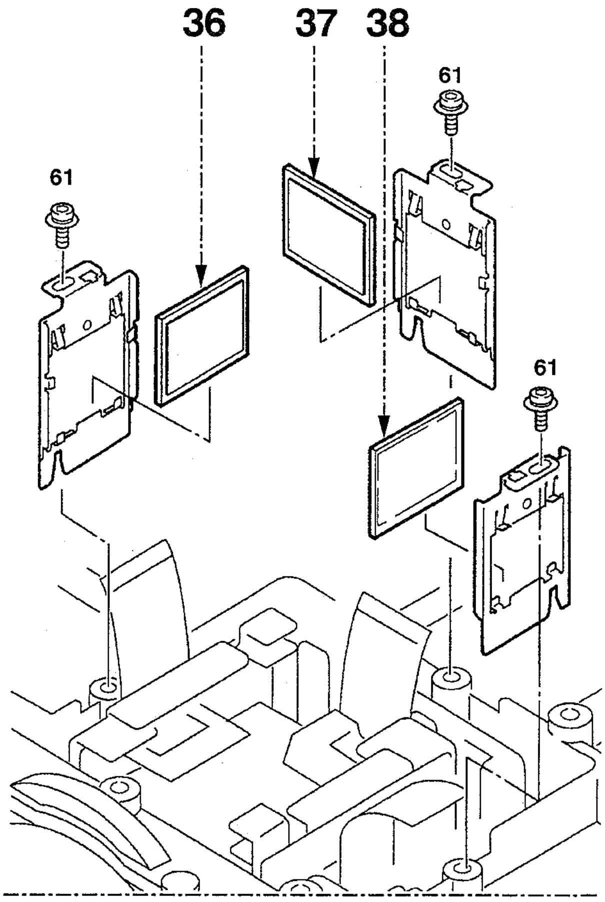
RED LCD PANEL
BLUE LCD PANEL

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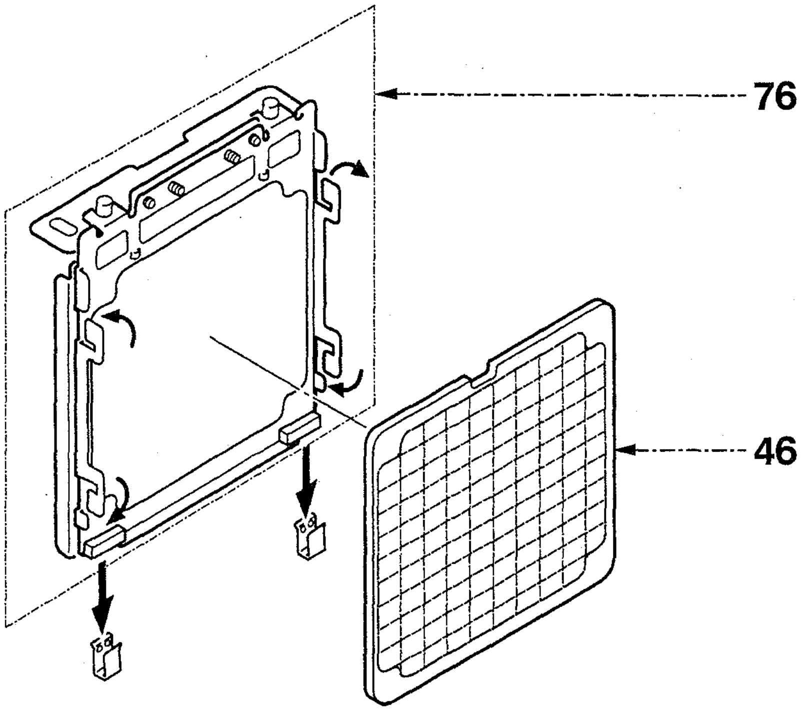
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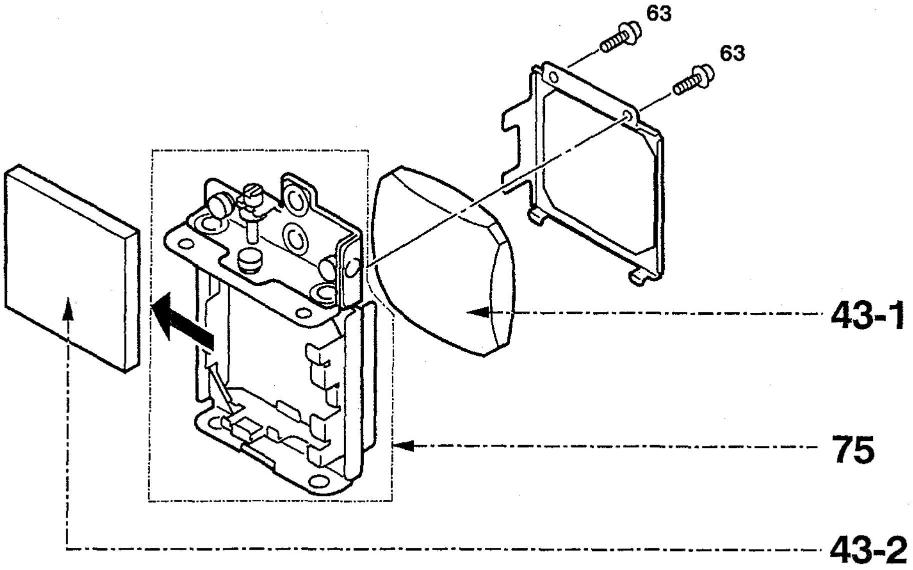
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[CABINET CHASSIS & OPTICAL PARTS LIST]

CABINET & CHASSIS PARTS

KEY. No.	Part No.	Description
1	610 277 1589	COMPL, CABINET TOP-M6YA
A	610 275 8252	COVER TOP-M6SA
B	610 276 3164	ASSY, BUTTON-M6SA
C	610 276 2693	DEC RC-M6SA
2	610 277 3262	ASSY, CABINET FR-M6SA
3	610 276 3294	SPACER LIGHT-M6SA
4	610 275 8122	CAP LENS-M6SA
5	610 275 4179	OPTICAL BASE TOP-M6SA
6	610 275 4162	OPTICAL BASE BTM-M6SA
7	610 276 3034	MOUNTING DUCT INT-M6SA
8	610 275 4148	HOLDER POWER PWB-M6SA
9	610 276 1306	DEC AV SHEET-M6SA
10	610 275 8177	PANEL AV-M6SA
11	610 275 9020	MOUNTING DUCT TOP-M6SA
12	610 275 9037	MOUNTING DUCT BTM-M6SA
13	610 275 9198	HANDLE-M6SA
15	610 268 2984	HOLDER AC-M6KA
16	610 275 4155	HOLDER LAMP PWB-M6SA
17	610 275 8245	COVER, LAMP-M6SA
18	610 276 0637	COMPL, CABINET BTM-M6SA
D	610 276 1498	SHIELD FAN-M6SA
E	610 276 1337	FILTER NET-M6SA
F	610 275 8184	PANEL FILTER-M6SA
19	610 276 0675	ASSY, STAND LEG-M6SA

SCREWS

KEY. No.	Part No.	Description
51	411 002 0903	SCR BIN 4X6
52	411 077 1508	SCR TPG BIN 4X12
53	411 025 6500	SCR S-TPG BIN 3X8
54	411 147 4408	SCR S-TPG BIN 4X12
55	412 018 8402	SCR P-TAP FLG 3X10E
57	411 033 3003	SCR FLT 2X4
58	411 052 1400	SCR OVL 2X6
59	412 058 2002	SPECIAL SCREW
61	411 174 9407	BOLT HEX-SCT 2.5X6
62	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6
63	411 030 7301	SCR BIN 2X6

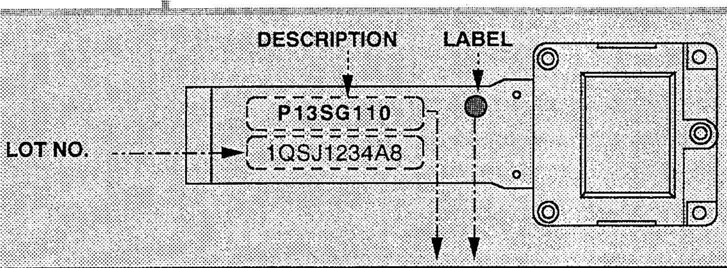
OPTICAL PARTS

KEY. No.	Part No.	Description
21	645 031 8337	ASSY, LENS, PROJECTION
21-1	645 032 8664	MOTOR, LENS(Z, F) DC 0.2W
31	645 035 6346	MIRROR(B)
33	645 035 6339	MIRROR(W-COLD)
32	645 032 7216	MIRROR(R)
34	645 035 5332	DICHROIC MIRROR (R)
35	645 035 5349	DICHROIC MIRROR (G)
36	645 035 9330	POLARIZED GLASS(R-FILTER)
37	645 035 9347	POLARIZED GLASS(G)
38	645 035 9354	POLARIZED GLASS(B)
39	645 032 8756	ASSY, PRISM M6TP(E)
40	645 024 9037	LENS, CONDENSER
	or 645 032 2822	LENS, CONDENSER
41	645 032 6455	LENS, CONDENSER(B)
42	645 032 6462	LENS, RELAY(IN)
43-1	645 032 6479	LENS, RELAY(OUT)
43-2	645 033 7703	OPTICAL FILTER(UV CUT)
44	645 032 6431	LENS, CONDENSER(IN)
45	645 032 6448	LENS, CONDENSER(OUT)
46	645 031 5640	LENS, INTEGRATOR(IN)
47	645 035 7015	ASSY, LENS, INT. (OUT)
48	645 025 0682	PRISM(PBS)
	or 645 025 6899	PRISM(PBS)
	or 645 026 1060	PRISM(PBS)
71	645 032 9166	GREEN LCD(P13SG110(G)
A	645 032 9173	RED LCD(P13SG120(R)
COMBINATION	645 032 9180	BLUE LCD(P13SG120(B)
	645 032 9197	GREEN LCD(P13SG120(G)
B	645 032 9203	RED LCD(P13SG110(R)
※SEE NOTE	645 032 9210	BLUE LCD(P13SG110(B)
73	610 276 3232	MOUNTING PLATE PNL*G-M6SA
74	610 276 0323	COMPL, HOLDER LCD-M6SA
75	610 276 2631	COMPL, MOUNTING LENS-M6SA
76	610 276 0927	COMPL, MOUNTING INT-M6SA

NOTE 71

MAKE SURE THE INDICATIONS ON FPC WHEN REPLACING THE LCD PANEL.

- ●. When replacing the LCD Panel, be sure to use the panel matched with other panels in combination A or B. Do not use the LCD Panel in the combination other then A or B. Other combination can't provide proper image.
- ▲. When replacing the LCD Panel, pay attention to static electricity. And never touch the terminal of FPC.



		DESCRIPTION	LABEL	PART NO.
COMBINATION A	GREEN PANEL	P13SG110	NO LABEL	645 032 9166
	RED PANEL	P13SG120	RED LABEL	645 032 9173
	BLUE PANEL	P13SG120	BLUE LABEL	645 032 9180
COMBINATION B	GREEN PANEL	P13SG120	NO LABEL	645 032 9197
	RED PANEL	P13SG110	RED LABEL	645 032 9203
	BLUE PANEL	P13SG110	BLUE LABEL	645 032 9210

SANYO FISHER

Your order number:		Itm:
0200		120
Part Number		Model Number
SM515049 SERVICE MANUAL		
Quantity		Part Numbers
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Stock location:	Our Order number:	Customer.
00SM 00138	35453	011200

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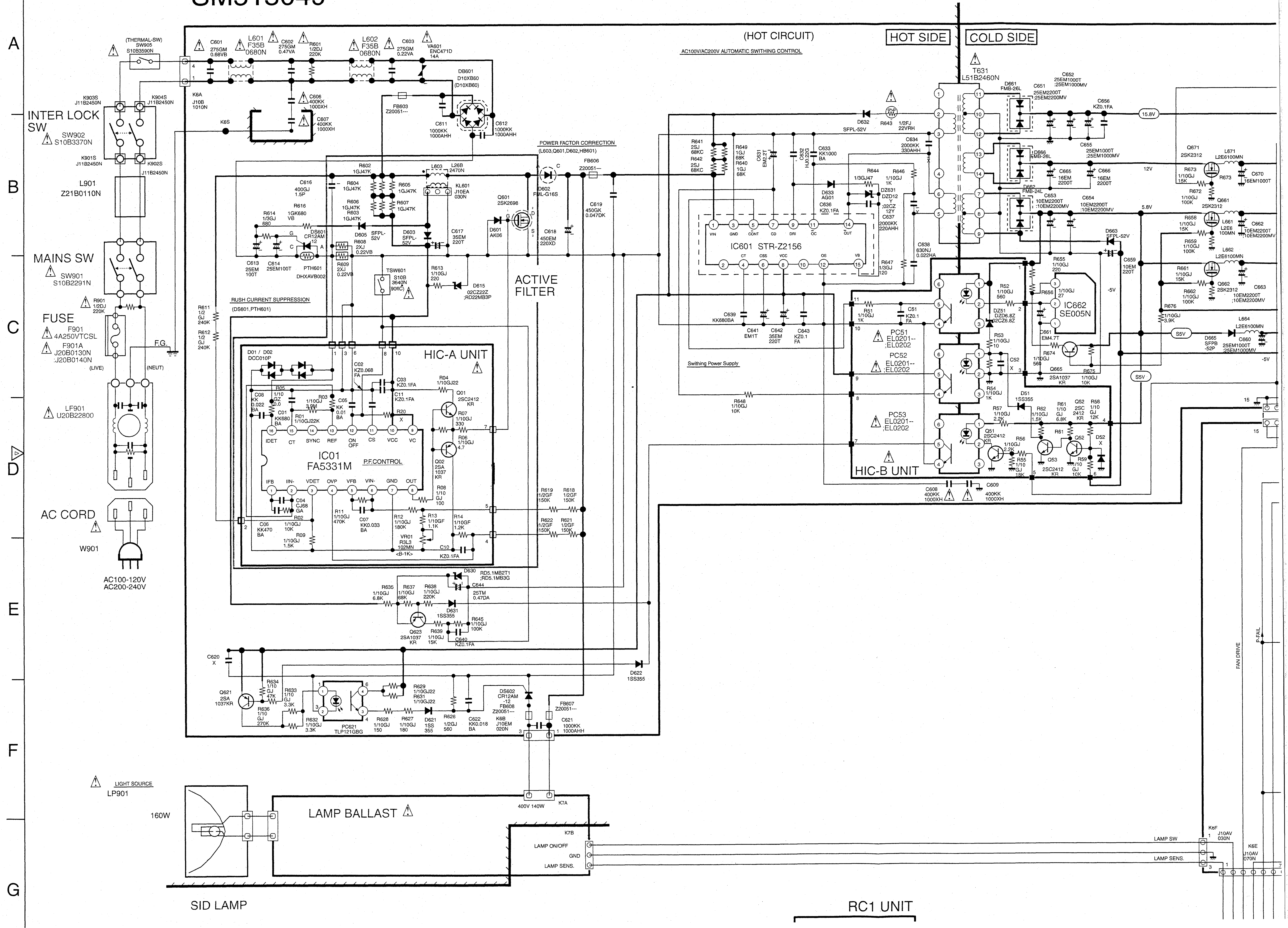
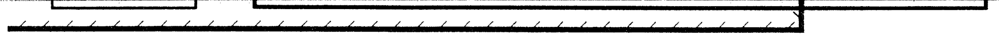
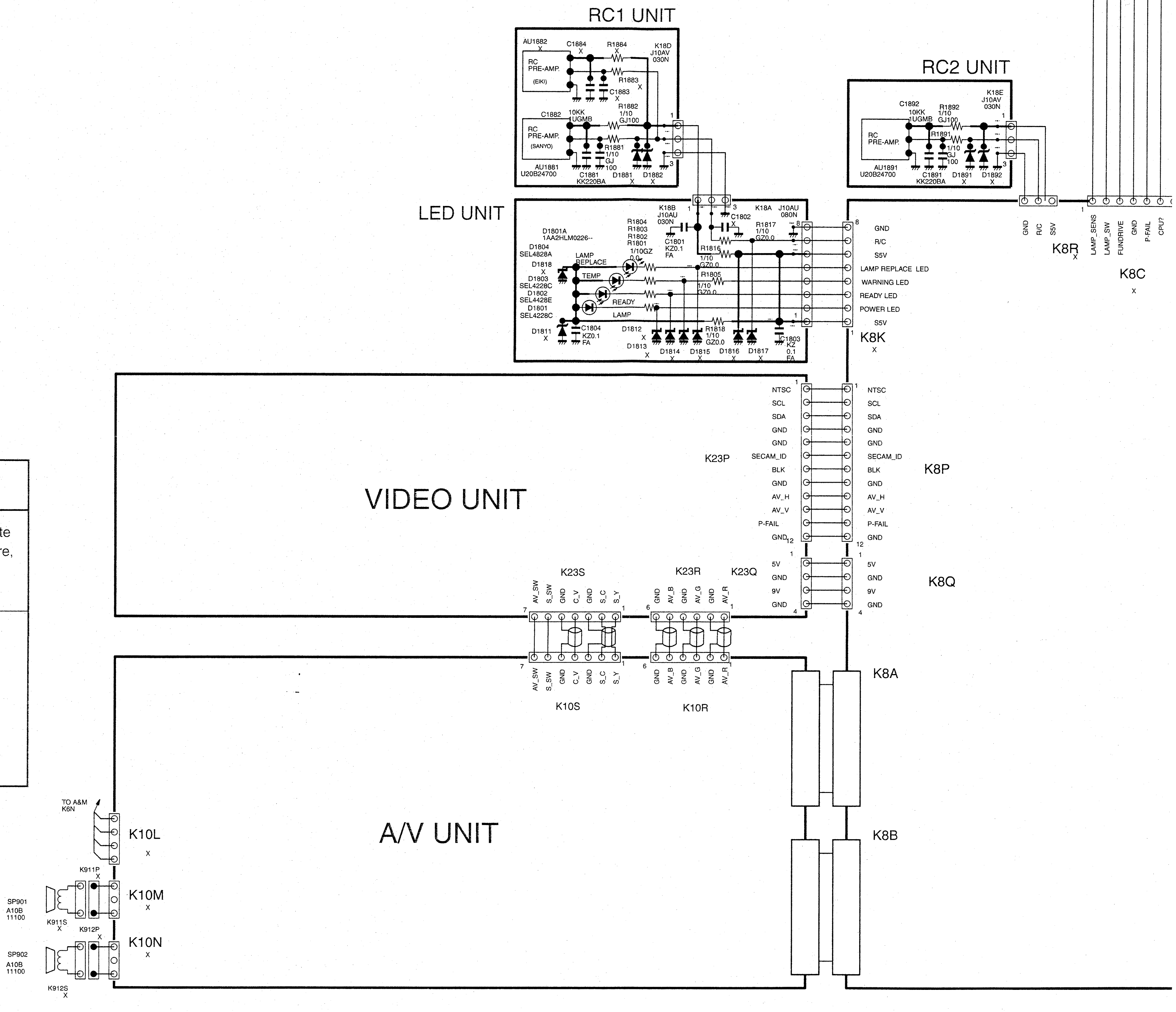
Feb. / '99 / 1300 SI

S1 MODEL NO. PLC-SP10E/SP10B/SP10 Schematic Diagrams
SM515049


A
B
C
D
E
F
G
(THERMAL-SW)
SW905
S10B3590N
K903S
J11B2450N
K904S
J11B2450N
INTER LOCK SW
SW902
S10B3370N
K901S
J11B2450N
K902S
J11B2450N
L901
Z21B0110N
MAINS SW
SW901
S10B2291N
R901
1/2DJ
220K
FUSE
F901
4A250VTCSL
F901A
J20B0130N
:J20B0140N
(LIVE)
(NEUT)
F.G.
LF901
U20B22800
AC CORD
W901
AC100-120V
AC200-240V
C601
275GM
0.68VB
L601
F35B
0680N
C602
275GM
0.47VA
R601
1/2DJ
220K
L602
F35B
0680N
C603
275GM
0.22VA
VA601
ENC471D
14A
DB601
D10XB60
(D10XB60)
K6A
J10B
1010N
C606
400KK
1000XH
C607
400KK
1000XH
K6S
FB603
Z20051---
C611
1000KK
1000AHH
C612
1000KK
1000AHH
POWER FACTOR CORRECTION
(L603,Q601,D602,HB601)
FB606
Z20051---
R602
1GJ47K
L603
L26B
2470N
KL601
J10EA
030N
C616
400GJ
1.5P
R604
1GJ47K
R605
1GJ47K
R606
1GJ47K
R603
1GJ47K
R607
1GJ47K
R614
1/3GJ
680
R616
1GK680
VB
DS601
CR12AM
12
D605
SFPL-52V
D603
SFPL-52V
C617
35EM
220T
Q601
2SK2698
D601
AK06
D602
FML-G16S
C618
450EM
220XD
C619
450GK
0.047DK
C613
25EM
100T
C614
25MM100T
PTH601
DHXAVB002
R608
2XJ
0.22VB
R609
2XJ
0.22VB
TSW601
S10B
3640N
90°C
R613
1/10GJ
220
D615
02CZ22Z
;RD22MB3P
ACTIVE FILTER
RUSH CURRENT SUPPRESSION
(DS601,PTH601)
R611
1/2
GJ
240K
R612
1/2
GJ
240K
HIC-A UNIT
D01 / D02
DCC010P
R05
1/10
GZ
0.0
C08
KK
0.022
BA
C01
KK680
BA
R01
1/10GJ22K
R03
1/10GJ
3.9M
C05
KK
0.01
BA
C02
KZ0.068
FA
C03
KZ0.1FA
C11
KZ0.1FA
R04
1/10GJ22
Q01
2SC2412
KR
R20
X
R07
1/10GJ
330
R06
1/10GJ
4.7
Q02
2SA
1037
KR
IC01
FA5331M
P.F.CONTROL
IDET
CT
SYNC
REF
ON OFF
CS
VCC
VC
IFB
IIN-
VDET
OVP
VFB
VIN-
GND
OUT
C04
CJ68
GA
C06
KK470
BA
R02
1/10GJ
10K
R09
1/10GJ
1.5K
R11
1/10GJ
470K
C07
KK0.033
BA
R12
1/10GJ
180K
R13
1/10GF
1.1K
VR01
R3L3
102MN
<B-1K>
R14
1/10GF
1.2K
C10
KZ0.1FA
R08
1/10
GJ
100
R619
1/2GF
150K
R618
1/2GF
150K
R622
1/2GF
150K
R621
1/2GF
150K
D630
RD5.1MB2T1
;RD5.1MB3G
C644
25TM
0.47DA
R635
1/10GJ
6.8K
R637
1/10GJ
68K
R638
1/10GJ
220K
D631
1SS355
R645
1/10GJ
100K
Q623
2SA1037
KR
R639
1/10GJ
15K
C640
KZ0.1FA
C620
X
D622
1SS355
Q621
2SA
1037KR
R634
1/10
GJ
47K
R633
1/10
GJ
3.3K
R636
1/10
GJ
270K
R632
1/10GJ
3.3K
PC621
TLP121GBG
R628
1/10GJ
150
R627
1/10GJ
180
R629
1/10GJ22
R631
1/10GJ22
D621
1SS
355
R626
1/2GJ
560
C622
KK0.018
BA
DS602
CR12AM
-12
FB608
Z20051---
K6B
J10EM
020N
FB607
Z20051---
C621
1000KK
1000AHH
LIGHT SOURCE
LP901
160W
LAMP BALLAST
400V 140W
K7A
K7B
LAMP ON/OFF
GND
LAMP SENS.
SID LAMP
(HOT CIRCUIT)
AC100V/AC200V AUTOMATIC SWITHING CONTROL
HOT SIDE
COLD SIDE
T631
L51B2460N
D632
SFPL-52V
R643
1/2FJ
22VRH
R641
2SJ
68KC
R642
2SJ
68KC
R649
1GJ
68K
R640
1GJ
68K
C631
EM2.2T
C632
HJ0.22G
C633
KK1000
BA
C634
2000KK
330AHH
R644
1/3GJ47
1K
R646
1/10GJ
1K
D633
AG01
DZ631
DZD12
Y
;02CZ
12Y
C636
KZ0.1FA
C637
2000KK
220AHH
IC601 STR-Z2156
VIN
GND
CONT
CD
DRI
OC
OUT
CT
CSS
VCC
OS
VB
C638
630NJ
0.022HA
R647
1/3GJ
120
C639
KK680BA
C641
EM1T
C642
35EM
220T
C643
KZ0.1
FA
Swithing Power Supply
R648
1/10GJ
10K
D661
FMB-26L
C651
25EM2200T
:25EM2200MV
C652
25EM1000T
:25EM1000MV
C656
KZ0.1FA
15.8V
D666
FMB-26L
C655
25EM1000T
:25EM1000MV
C665
16EM
220T
C666
16EM
220T
12V
D662
FMB-24L
C653
10EM2200T
:10EM2200MV
C654
10EM2200T
:10EM2200MV
5.8V
D663
SFPL-52V
C659
10EM
220T
-5V
R655
1/10GJ
220
R52
1/10GJ
560
R656
R51
1/10GJ
1K
C51
KZ0.1
FA
IC662
SE005N
DZ51
DZD6.8Z
;02CZ6.8Z
PC51
EL0201--
;EL0202
PC52
EL0201--
;EL0202
PC53
EL0201--
;EL0202
R53
1/10GJ
10
C52
X
R54
1/10GJ
1K
C661
EM4.7T
R674
1/10GJ
560
Q665
2SA1037
KR
R675
1/10GJ
10K
S5V
D51
1SS355
R57
1/10GJ
2.2K
R62
1/10GJ
1.5K
R61
1/10
GJ
6.8K
Q52
2SC
2412
KR
R58
1/10
GJ
12K
Q51
2SC2412
KR
R56
1/10GJ
2.2K
R55
1/10
GJ
18K
Q53
2SC2412
KR
R59
1/10
GJ
10K
D52
X
HIC-B UNIT
C608
400KK
1000XH
C609
400KK
1000XH
Q671
2SK2312
L671
L2E6100MN
R673
1/10GJ
15K
C670
16EM1000T
R672
1/10GJ
100K
Q661
2SK2312
R658
1/10GJ
15K
L661
L2E6
100MN
C662
10EM2200T
:10EM2200MV
R659
1/10GJ
100K
L662
L2E6100MN
R661
1/10GJ
15K
Q662
2SK2312
R662
1/10GJ
100K
C663
10EM2200T
:10EM2200MV
R676
1/10GJ
3.9K
L664
L2E6100MN
S5V
D665
SFPB
-52P
C660
25EM1000T
:25EM1000MV
-5V
FAN DRIVE
P-FAIL
K6F
J10AV
030N
K6E
J10AV
070N
LAMP SW
LAMP SENS.
RC1 UNIT




RC1 UNIT
RC PRE-AMP. (EIKI)
RC PRE-AMP. (SANYO)
AU1882
AU1881
U20B24700
C1884
R1884
K18D
J10AV
030N
R1883
C1883
C1882
10KK
1UGMB
R1882
1/10
GJ100
R1881
C1881
KK220BA
D1881
D1882
RC2 UNIT
RC PRE-AMP.
AU1891
U20B24700
C1892
R1892
R1891
C1891
D1891
D1892
K18E
LED UNIT
K18B
J10AU
030N
K18A
J10AU
080N
D1801A
1AA2HLM0226--
D1804
SEL4828A
D1818
D1803
SEL4228C
D1802
SEL4428E
D1801
SEL4228C
D1811
LAMP REPLACE
TEMP
READY
LAMP
R1804
R1803
R1802
R1801
1/10GZ
C1801
KZ0.1
FA
C1802
R1817
R1816
R1805
R1818
C1804
C1803
D1812
D1813
D1814
D1815
D1816
D1817
GND
R/C
S5V
LAMP REPLACE LED
WARNING LED
READY LED
POWER LED
K8K
K8R
K8C
LAMP_SENS
LAMP_SW
FUNDRIVE
P-FAIL
CPU7
VIDEO UNIT
K23P
NTSC
SCL
SDA
SECAM_ID
BLK
AV_H
AV_V
P-FAIL
K8P
5V
9V
K23Q
K8Q
K23S
K23R
AV_SW
S_SW
C_V
S_C
S_Y
AV_B
AV_G
AV_R
K10S
K10R
K8A
K8B
A/V UNIT
TO A&M K8N
K10L
K911P
K10M
SP901
A10B
11100
K911S
K912P
K10N
SP902
K912S
G
H
I
J
K
L
1
2
3
4
5
6
7
8

CAUTION

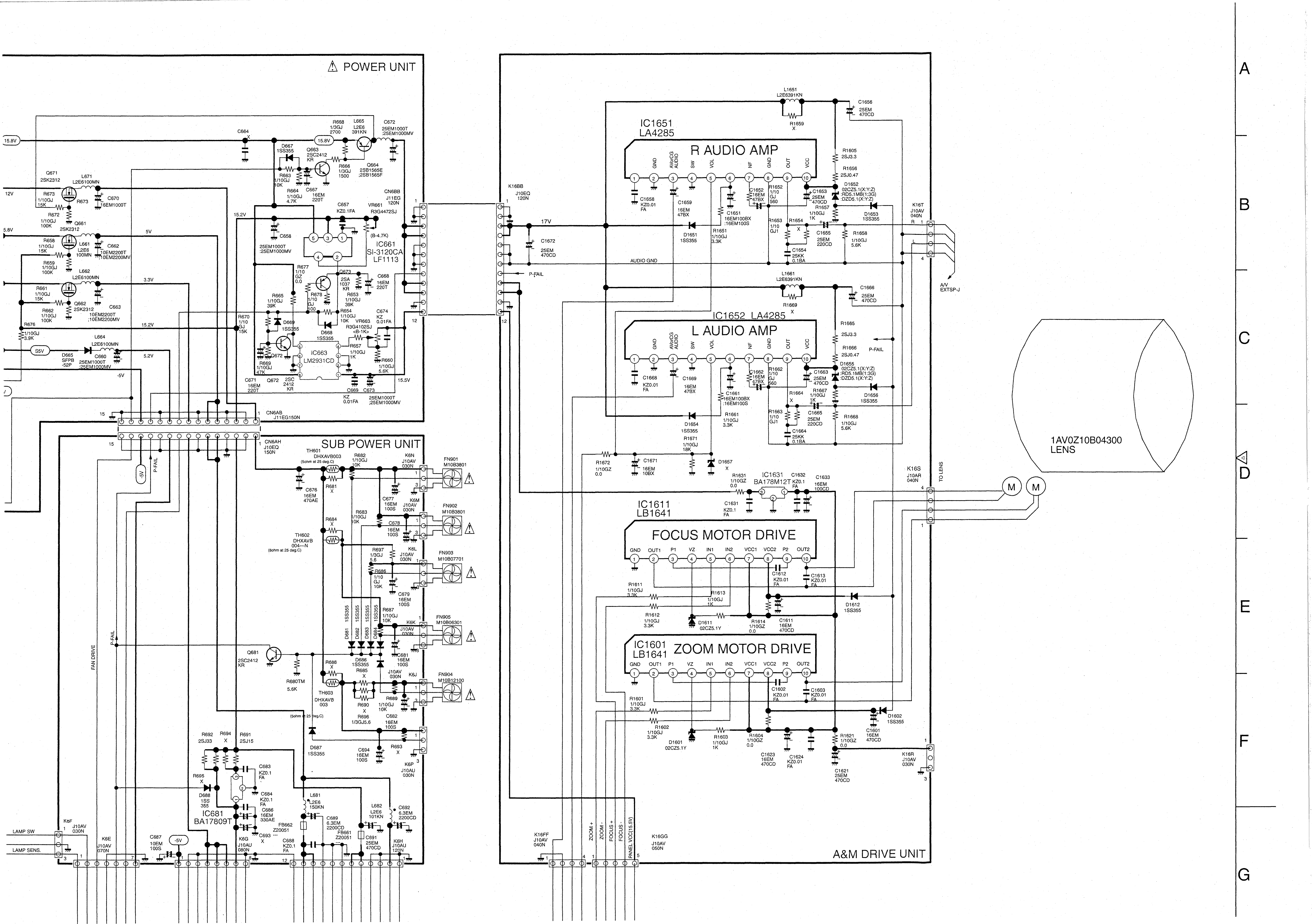
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

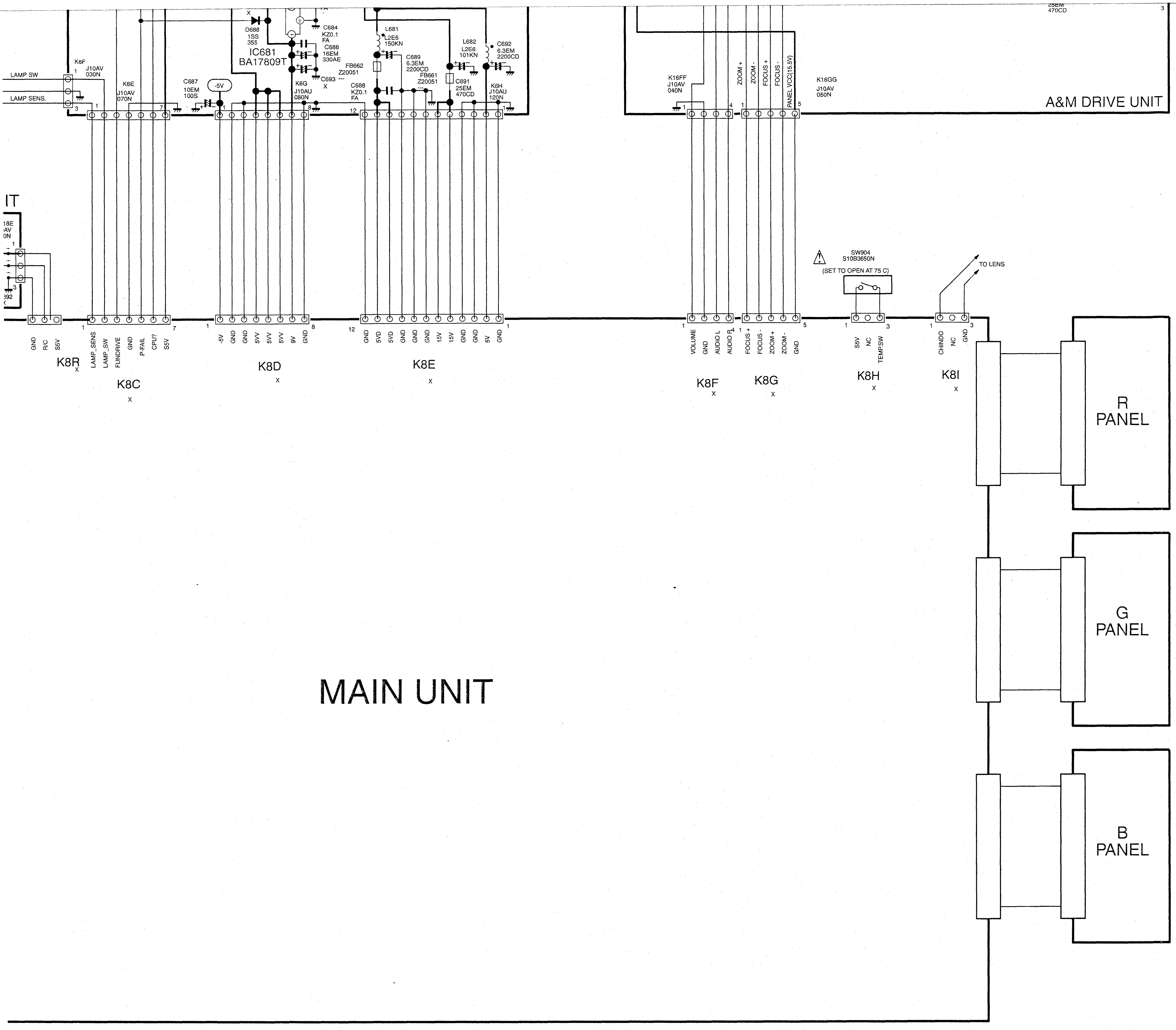
CAUTION

Components indicated by a mark ⚠ in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing.

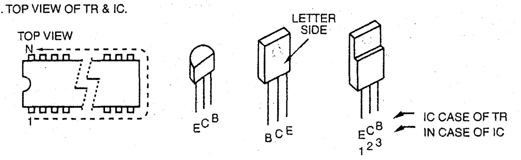
① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
② Do not shorten the circuit between hot and cold sides.
③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.


POWER UNIT
SUB POWER UNIT
A&M DRIVE UNIT
IC661
SI-3120CA
LF1113
IC663
LM2931CD
IC681
BA17809T
IC1651
LA4285
R AUDIO AMP
IC1652 LA4285
L AUDIO AMP
GND
AVorCG AUDIO
SW
VOL
NF
OUT
VCC
IC1631
BA178M12T
IC1611
LB1641
FOCUS MOTOR DRIVE
IC1601
LB1641
ZOOM MOTOR DRIVE
OUT1
P1
VZ
IN1
IN2
VCC1
VCC2
P2
OUT2
1AV0Z10B04300
LENS
TO LENS
M
FN901 M10B3801
FN902 M10B3801
FN903 M10B07701
FN905 M10B06301
FN904 M10B12100
TH601 DHXAVB003
TH602 DHXAVB 004---N
TH603 DHXAVB 003
CN6AB J11EG150N
CN6AH J10EQ 150N
CN6BB J11EG 120N
K16BB J10EQ 120N
K16T J10AV 040N
K16S J10AR 040N
K16R J10AV 030N
K16FF J10AV 040N
K16GG J10AV 050N
A/V EXTSP-J
15.8V
12V
5.8V
5V
3.3V
15.2V
5.2V
-5V
15.5V
17V
S5V
P-FAIL
AUDIO GND
FAN DRIVE
LAMP SW
LAMP SENS.
ZOOM +
ZOOM -
FOCUS +
FOCUS -
PANEL VCC(15.5V)
Q671 2SK2312
Q661 2SK2312
Q662 2SK2312
Q663 2SC2412 KR
Q664 2SB1565E ;2SB1565F
Q673 2SA 1037 KR
Q672 2SC 2412 KR
Q681 2SC2412 KR
L671 L2E6100MN
L661 L2E6 100MN
L662 L2E6100MN
L664 L2E6100MN
L665 L2E6 391KN
L681 L2E6 150KN
L682 L2E6 101KN
L1651 L2E6391KN
L1661 L2E6391KN
A
B
C
D
E
F
G


D688
1SS
355
IC681
BA17809T
C684
KZ0.1
FA
C686
16EM
330AE
C693
X
C687
10EM
100S
-5V
L681
L2E6
150KN
C689
6.3EM
2200CD
FB662
Z20051
FB661
Z20051
C688
KZ0.1
FA
L682
L2E6
101KN
C692
6.3EM
2200CD
C691
25EM
470CD
LAMP SW
LAMP SENS.
K6F
J10AV
030N
K6E
J10AV
070N
K6G
J10AU
080N
K6H
J10AU
120N
25EM
470CD
K16FF
J10AV
040N
ZOOM +
ZOOM -
FOCUS +
FOCUS -
PANEL VCC(15.5V)
K16GG
J10AV
050N
A&M DRIVE UNIT
IT
392
GND
R/C
S5V
K8R
LAMP_SENS
LAMP_SW
FUNDRIVE
GND
P-FAIL
CPU?
S5V
K8C
-5V
GND
GND
5VV
5VV
5VV
9V
GND
K8D
GND
5VD
5VD
GND
GND
GND
15V
15V
GND
GND
5V
GND
K8E
VOLUME
GND
AUDIO L
AUDIO R
K8F
FOCUS +
FOCUS -
ZOOM +
ZOOM -
GND
K8G
SW904
S10B3650N
(SET TO OPEN AT 75 C)
S5V
NC
TEMP.SW
K8H
TO LENS
CHINDO
NC
GND
K8I
R
PANEL
G
PANEL
B
PANEL
MAIN UNIT
G
H
I
J
K
8
9
10
11
12
13
14
15
16

NOTES;

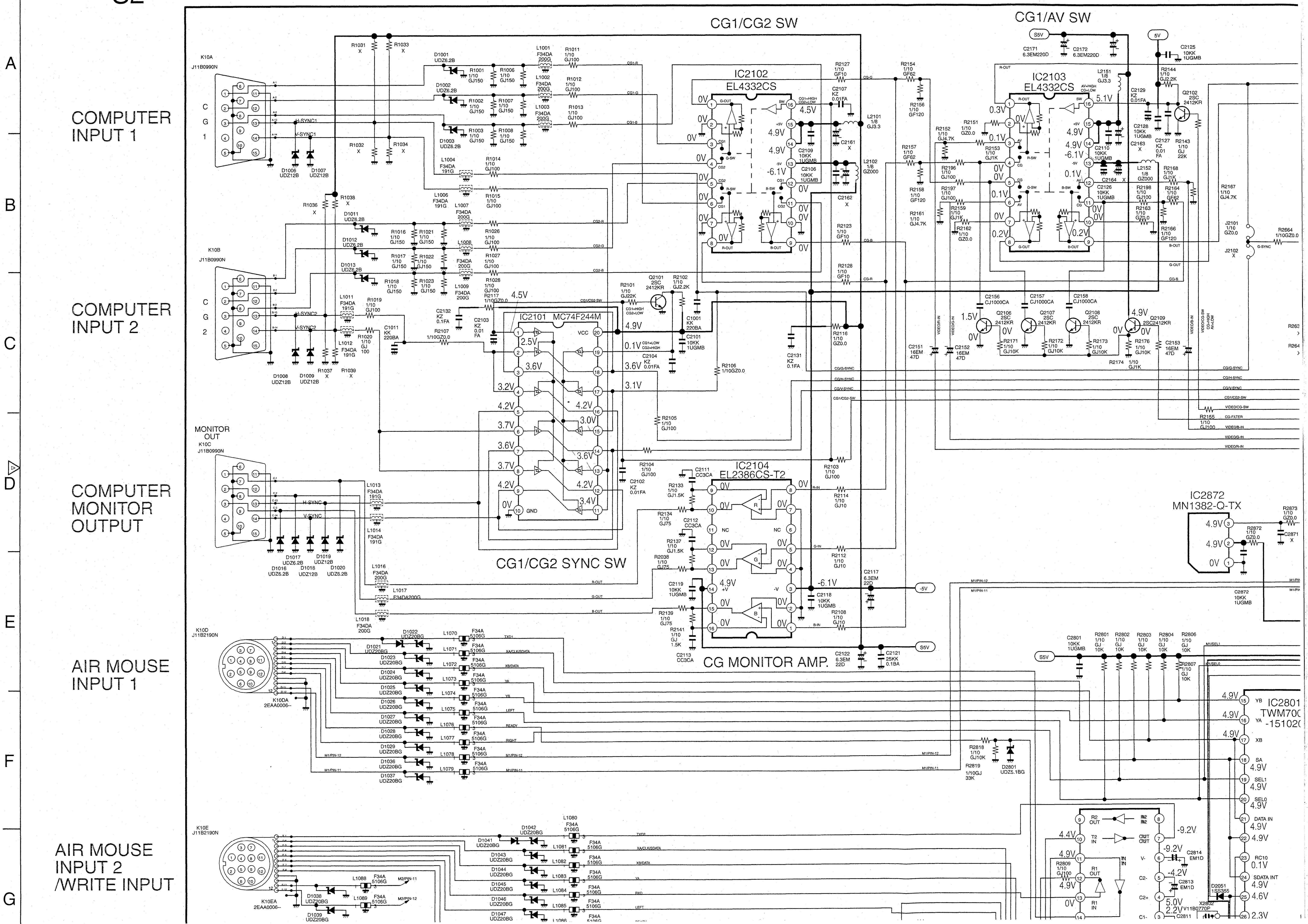
1. RESISTORS SPECIFIED WITH RESISTANCE VALUE ARE "1/6DJ".
2. RESISTORS SPECIFIED WIITH TYPE OF RESISTOR, TOLERANCE AND RESISTANCE VALLUE ARE "1/4".
3. ALL CAPACITORS ARE 50WV RATING UNLESS OTHERWISE NOTED.
4. TOP VIEW OF TR & IC.


TOP VIEW
N
1
E C B
LETTER
SIDE
B C E
E C B
1 2 3
IC CASE OF TR
IN CASE OF IC

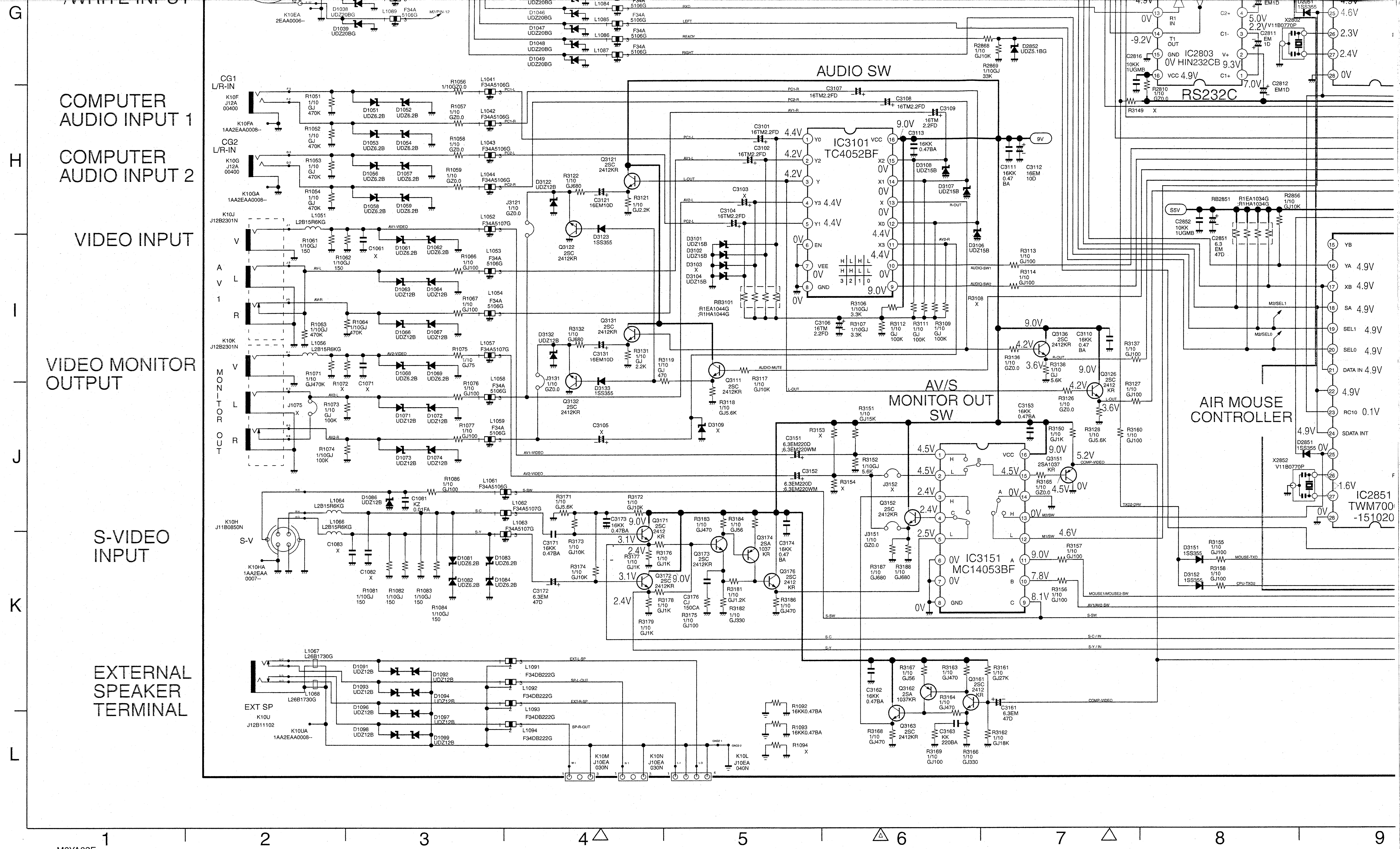
5. ISOLATION BOARDER LINE.

COLD SIDE
HOT SIDE

S2

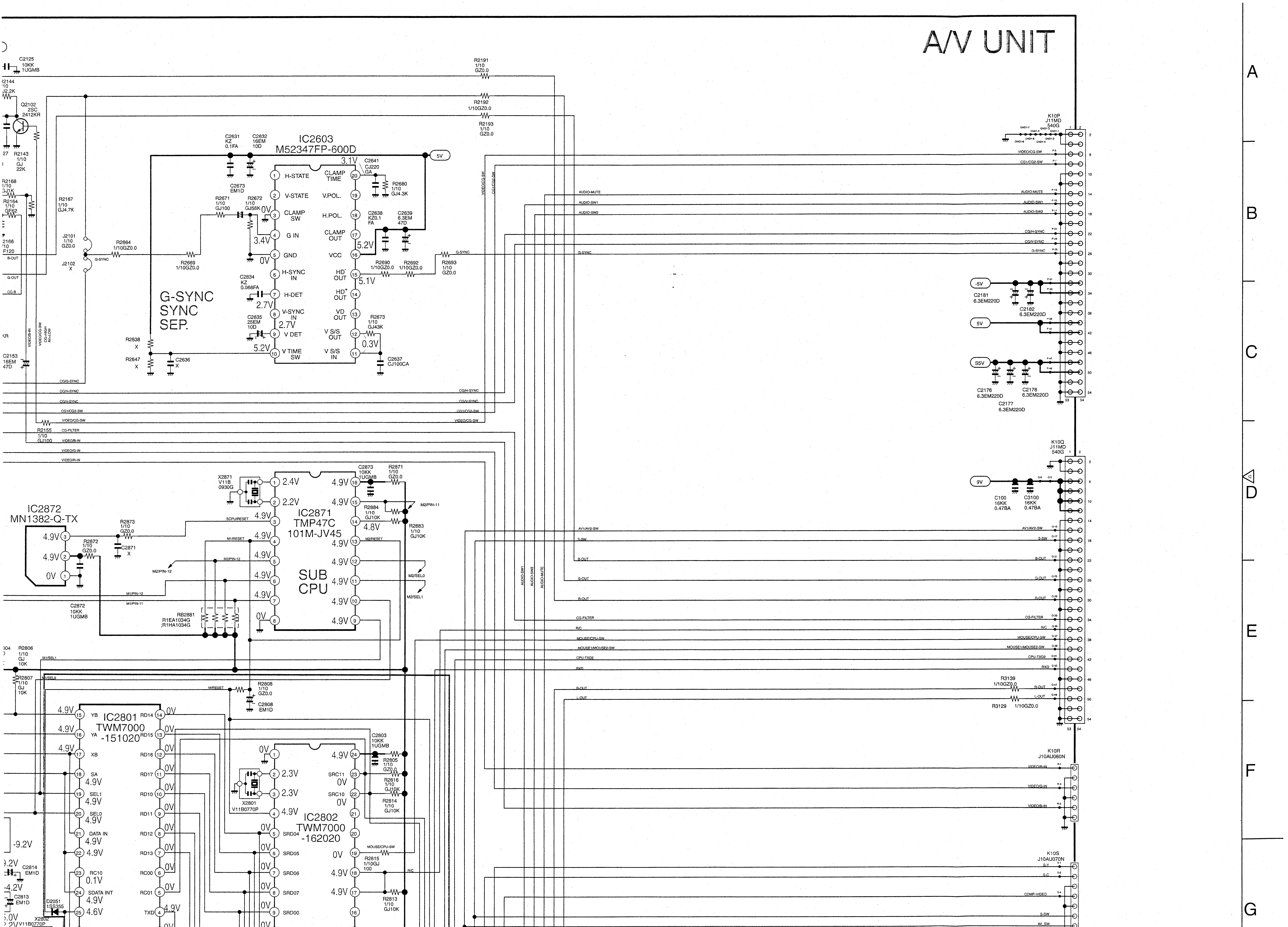


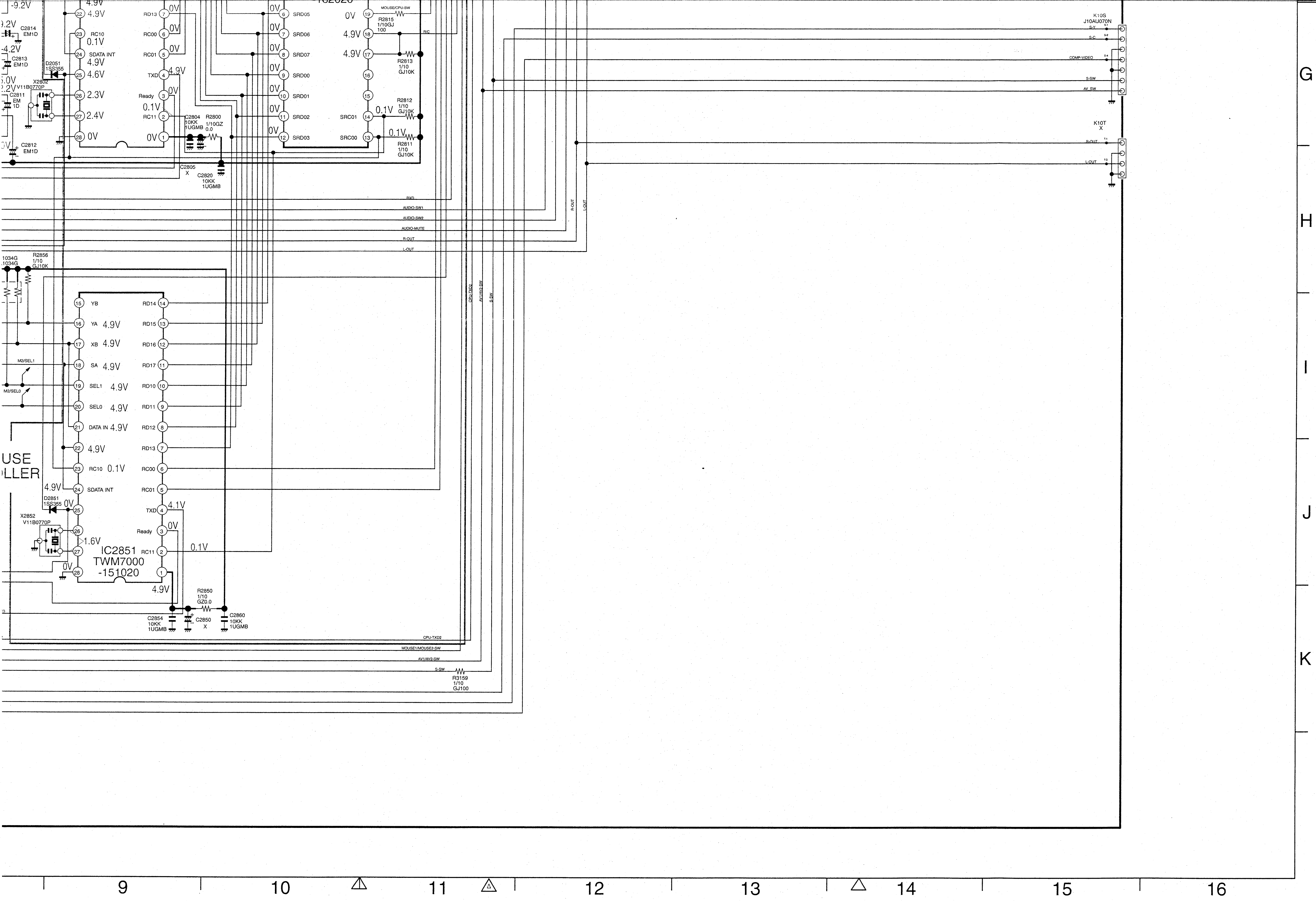
A
B
C
D
E
F
G
COMPUTER INPUT 1
COMPUTER INPUT 2
COMPUTER MONITOR OUTPUT
AIR MOUSE INPUT 1
AIR MOUSE INPUT 2 /WRITE INPUT
CG1/CG2 SW
CG1/AV SW
IC2102 EL4332CS
IC2103 EL4332CS
IC2101 MC74F244M
CG1/CG2 SYNC SW
IC2104 EL2386CS-T2
CG MONITOR AMP.
IC2872 MN1382-Q-TX
IC2801 TWM700 -15102
K10A J11B0990N
K10B J11B0990N
MONITOR OUT
K10C J11B0990N
K10D J11B2190N
K10DA 2EAA0006--
K10E J11B2190N
K10EA 2EAA0006--
H-SYNC1
V-SYNC1
H-SYNC2
V-SYNC2
H-SYNC
V-SYNC
S5V
5V
-5V
Q2101 2SC2412KR
Q2102 2SC2412KR
Q2106 2SC2412KR
Q2107 2SC2412KR
Q2108 2SC2412KR
Q2109 2SC2412KR
D2801 UDZ5.1BG
D2051 1SS355
X2802 V11B0770P


G
H
I
J
K
L
COMPUTER AUDIO INPUT 1
COMPUTER AUDIO INPUT 2
VIDEO INPUT
VIDEO MONITOR OUTPUT
S-VIDEO INPUT
EXTERNAL SPEAKER TERMINAL
CG1 L/R-IN
CG2 L/R-IN
AV1
MONITOR OUT
S-V
EXT SP
AUDIO SW
IC3101 TC4052BF
AV/S MONITOR OUT SW
IC3151 MC14053BF
IC2803 HIN232CB
RS232C
AIR MOUSE CONTROLLER
IC2851 TWM700 -151020
9V
S5V
1
2
3
4
5
6
7
8
9

M6YA02E

A/V UNIT


IC2603
M52347FP-600D
G-SYNC
SYNC
SEP.
H-STATE
V-STATE
CLAMP SW
G IN
GND
H-SYNC IN
H-DET
V-SYNC IN
V DET
V TIME SW
CLAMP TIME
V.POL.
H.POL.
CLAMP OUT
VCC
HD- OUT
HD+ OUT
VD OUT
V S/S OUT
V S/S IN
5V
IC2872
MN1382-Q-TX
IC2871
TMP47C
101M-JV45
SUB
CPU
IC2801
TWM7000
-151020
IC2802
TWM7000
-162020
X2871
V11B
0930G
X2801
V11B0770P
RB2881
R1EA1034G
;R1HA1034G
Q2102
2SC
2412KR
K10P
J11MD
540G
K10Q
J11MD
540G
K10R
J10AU060N
K10S
J10AU070N
C2181
6.3EM220D
C2182
6.3EM220D
C2176
6.3EM220D
C2177
6.3EM220D
C2178
6.3EM220D
C100
16KK
0.47BA
C3100
16KK
0.47BA
-5V
5V
S5V
9V
R2191
R2192
R2193
R3139
1/10GZ0.0
R3129
1/10GZ0.0
VIDEO/CG-SW
CG1/CG2-SW
AUDIO-MUTE
AUDIO-SW1
AUDIO-SW2
CG/H-SYNC
CG/V-SYNC
G-SYNC
CG-FILTER
VIDEO/B-IN
VIDEO/G-IN
VIDEO/R-IN
AV1/AV2-SW
S-SW
B-OUT
G-OUT
R-OUT
R/C
MOUSE/CPU-SW
MOUSE1/MOUSE2-SW
CPU-TXD2
RXD
L-OUT
S-Y
S-C
COMP-VIDEO
AV SW
M1/RESET
M2/PIN-12
M2/PIN-11
M1/PIN-12
M1/PIN-11
M2/SEL0
M2/SEL1
M1/SEL1
M1/SEL0
SCPU/RESET
M2/RESET
YB
YA
XB
SA
SEL1
SEL0
DATA IN
SDATA INT
RC10
RD14
RD15
RD16
RD17
RD10
RD11
RD12
RD13
RC00
RC01
TXD
SRC11
SRC10
SRD04
SRD05
SRD06
SRD07
SRD00
D2051
1SS355
A
B
C
D
E
F
G


-9.2V
C2814
EM1D
-4.2V
C2813
EM1D
D2051
1SS355
X2802
V11B0770P
C2811
EM
1D
C2812
EM1D
22
4.9V
23
RC10
0.1V
24
SDATA INT
4.9V
25
4.6V
26
2.3V
27
2.4V
28
0V
RD13
RC00
RC01
TXD
4.9V
Ready
0.1V
RC11
0V
C2804
10KK
1UGMB
R2800
1/10GZ
0.0
C2805
X
C2820
10KK
1UGMB
SRD05
SRD06
SRD07
SRD00
SRD01
SRD02
SRD03
MOUSE/CPU-SW
R2815
1/10GJ
100
R/C
4.9V
R2813
1/10
GJ10K
R2812
1/10
GJ10K
SRC01
SRC00
R2811
1/10
GJ10K
K10S
J10AU070N
S-1
S-Y
S-2
S-C
S-4
COMP-VIDEO
S-SW
AV_SW
K10T
X
T-1
R-OUT
T-3
L-OUT
RXD
AUDIO-SW1
AUDIO-SW2
AUDIO-MUTE
R-OUT
L-OUT
1034G
1034G
R2856
1/10
GJ10K
CPU-TXD2
AV1/AV2-SW
S-SW
15
YB
16
YA
17
XB
18
SA
19
SEL1
20
SEL0
21
DATA IN
RD14
RD15
RD16
RD17
RD10
RD11
RD12
RD13
RC00
RC01
M2/SEL1
M2/SEL0
USE
LLER
D2851
1SS355
X2852
V11B0770P
1.6V
4.1V
IC2851
TWM7000
-151020
R2850
1/10
GZ0.0
C2854
10KK
1UGMB
C2850
X
C2860
10KK
1UGMB
CPU-TXD2
MOUSE1/MOUSE2-SW
AV1/AV2-SW
S-SW
R3159
1/10
GJ100
G
H
I
J
K
9
10
11
12
13
14
15
16

S3 MODEL NO. PLC-SP10E/SP10B/SP10
SM515049

A

B

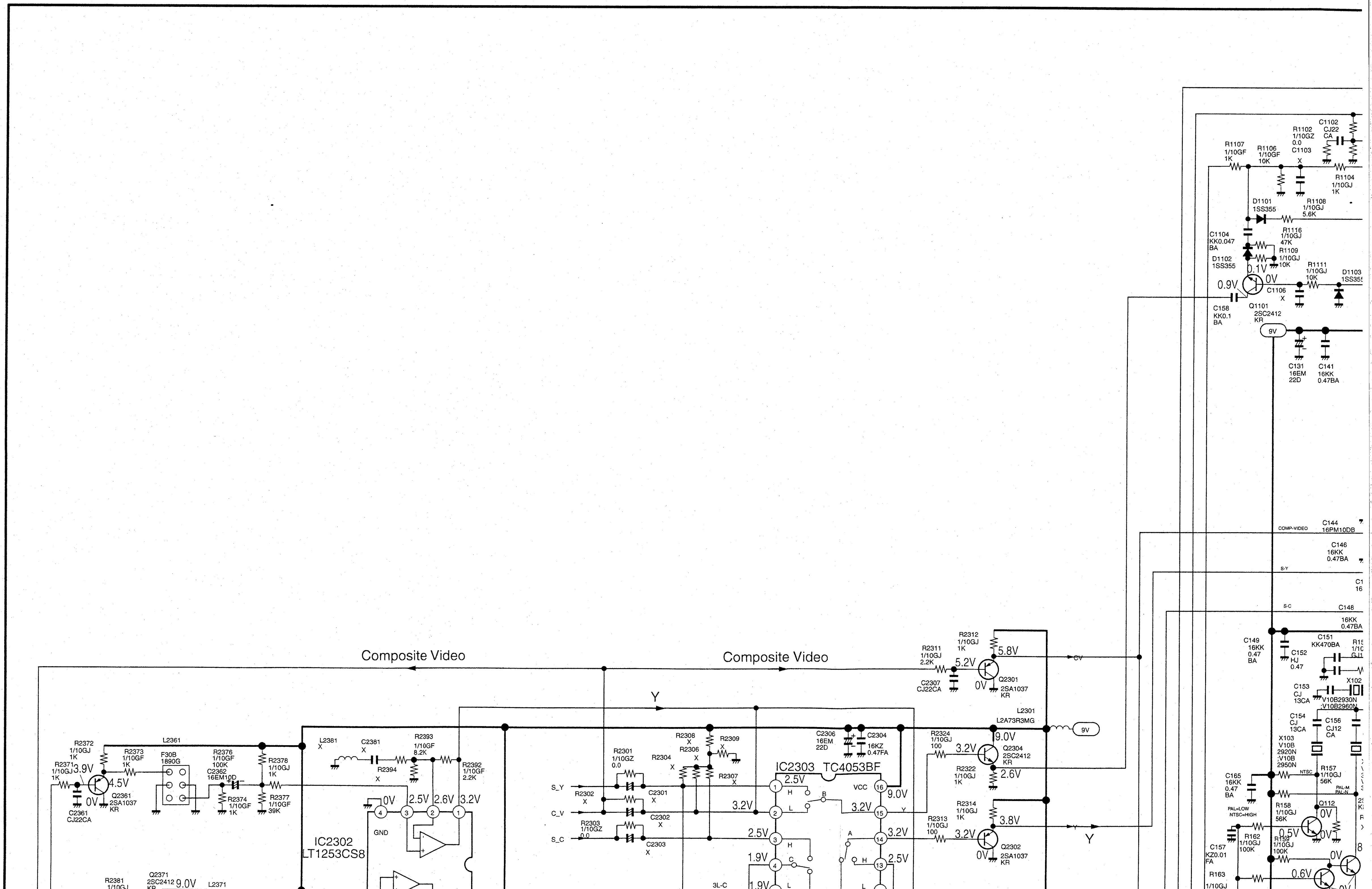
C

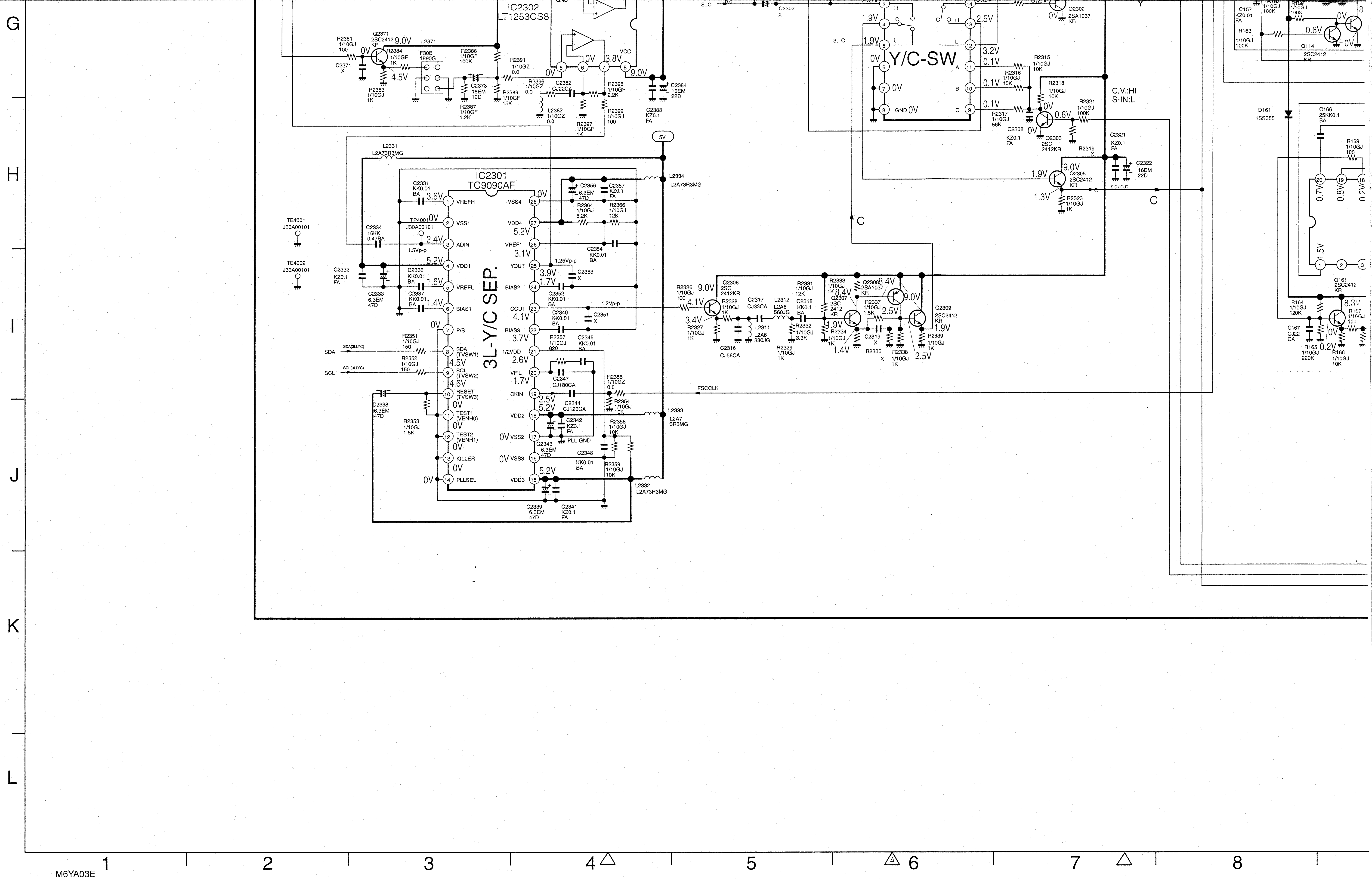
D

E

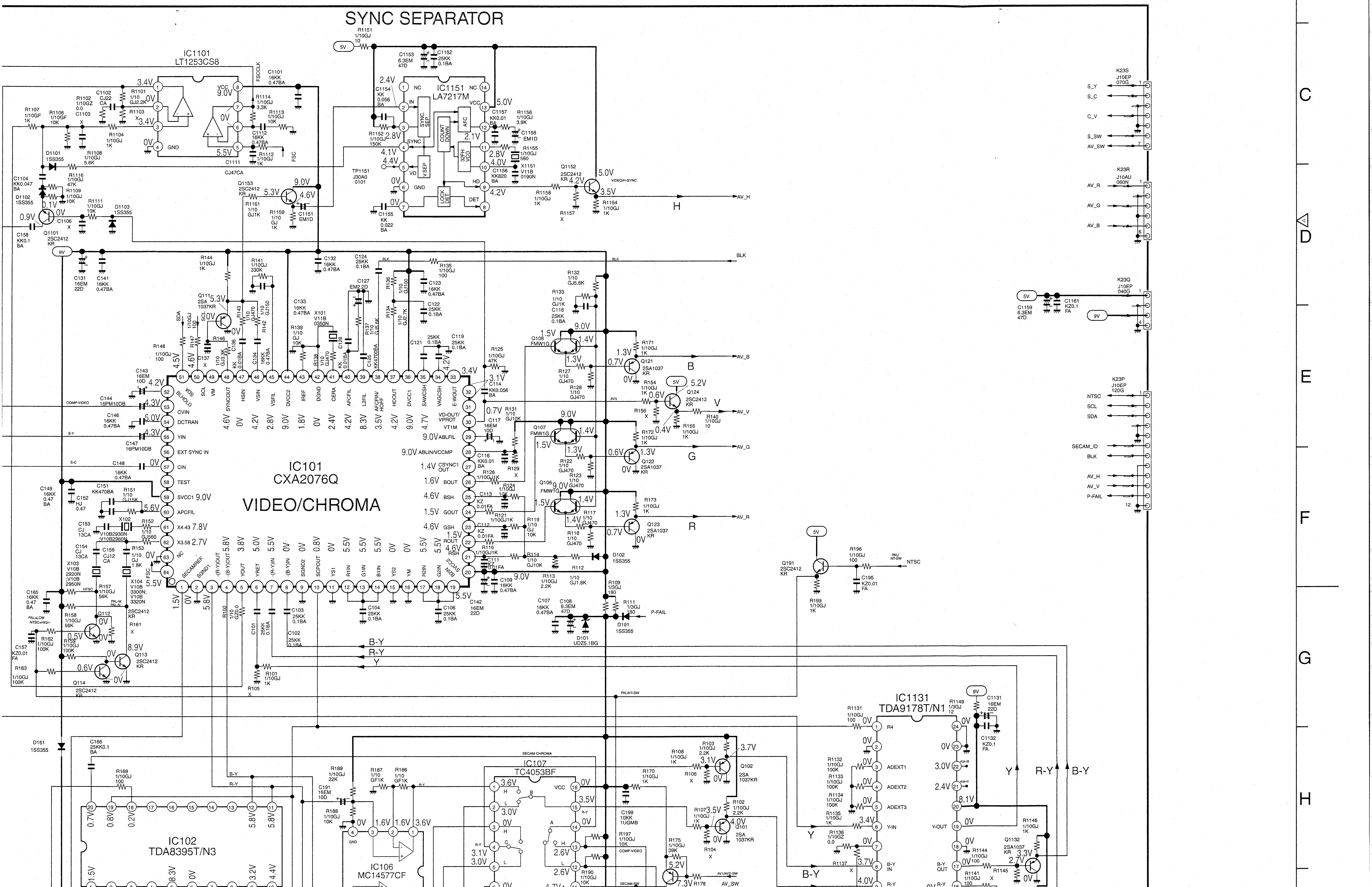
F

G

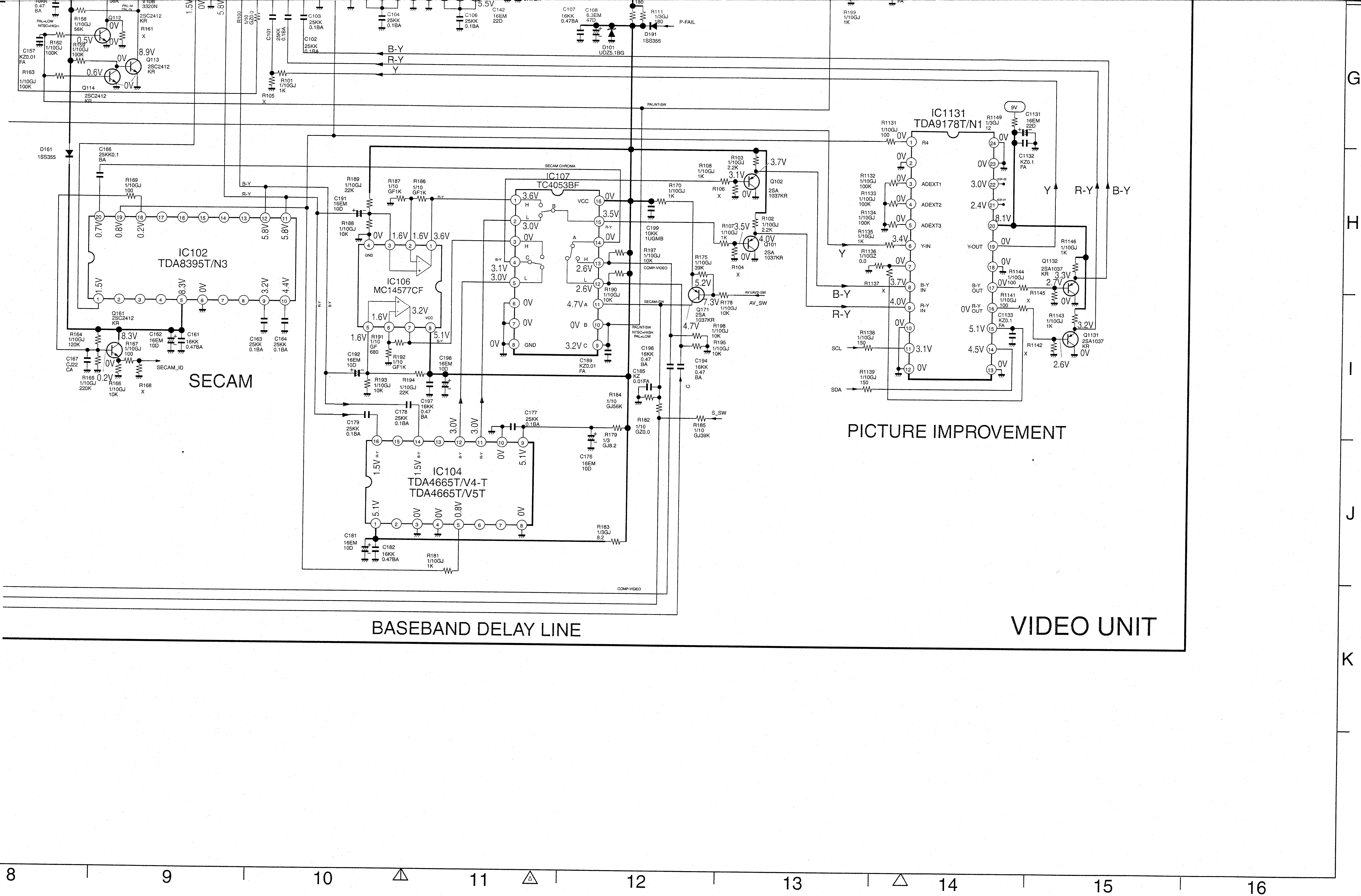

Composite Video
Composite Video
Y
Y
IC2303 TC4053BF
IC2302
LT1253CS8
Q2301
2SA1037
KR
Q2304
2SC2412
KR
Q2302
2SA1037
KR
Q2361
2SA1037
KR
Q2371
2SC2412
Q1101
2SC2412
KR
L2301
L2A73R3MG
L2361
L2371
L2381
9V
5.8V
5.2V
9.0V
3.2V
2.6V
3.8V
2.5V
1.9V
4.5V
3.9V
0V
0.9V
0.1V
0.5V
0.6V
S_Y
C_V
S_C
COMP-VIDEO
S-Y
S-C
CV
VCC
GND
D1101
1SS355
D1102
1SS355
D1103
R1107
R1106
R1102
R1104
R1108
R1116
R1109
R1111
C1102
C1103
C1104
C1106
C158
C131
C141
C144
16PM10DB
C146
C148
C149
C151
C152
C153
C154
C156
C157
C165
X102
X103
R157
R158
R159
R162
R163
Q112
PAL=LOW
NTSC=HIGH
R2311
R2312
R2313
R2314
R2322
R2324
C2306
C2304
C2307
R2301
R2302
R2303
R2304
R2306
R2307
R2308
R2309
C2301
C2302
C2303
R2392
R2393
R2394
C2381
R2372
R2371
R2373
R2374
R2376
R2377
R2381
C2361
C2362
F30B
1890G
3L-C


G
H
I
J
K
L
1
2
3
4
5
6
7
8
IC2302
LT1253CS8
IC2301
TC9090AF
3L-Y/C SEP.
Y/C-SW
C.V.:HI
S-IN:L
VREFH
VSS1
ADIN
VDD1
VREFL
BIAS1
P/S
SDA (TVSW1)
SCL (TVSW2)
RESET (TVSW3)
TEST1 (VENH0)
TEST2 (VENH1)
KILLER
PLLSEL
VSS4
VDD4
VREF1
YOUT
BIAS2
COUT
BIAS3
1/2VDD
VFIL
CKIN
VDD2
VSS2
VSS3
VDD3
PLL-GND
SDA
SCL
FSCCLK
TE4001
TE4002
TP4001
J30A00101
5V
C
S-C / OUT
3L-C
S_C
D161
1SS355
Q2371
Q2302
Q2303
Q2305
Q2306
Q2307
Q2308
Q2309
Q161
Q114
L2331
L2332
L2333
L2334
L2371
L2382
L2311
L2312
F30B
1890G

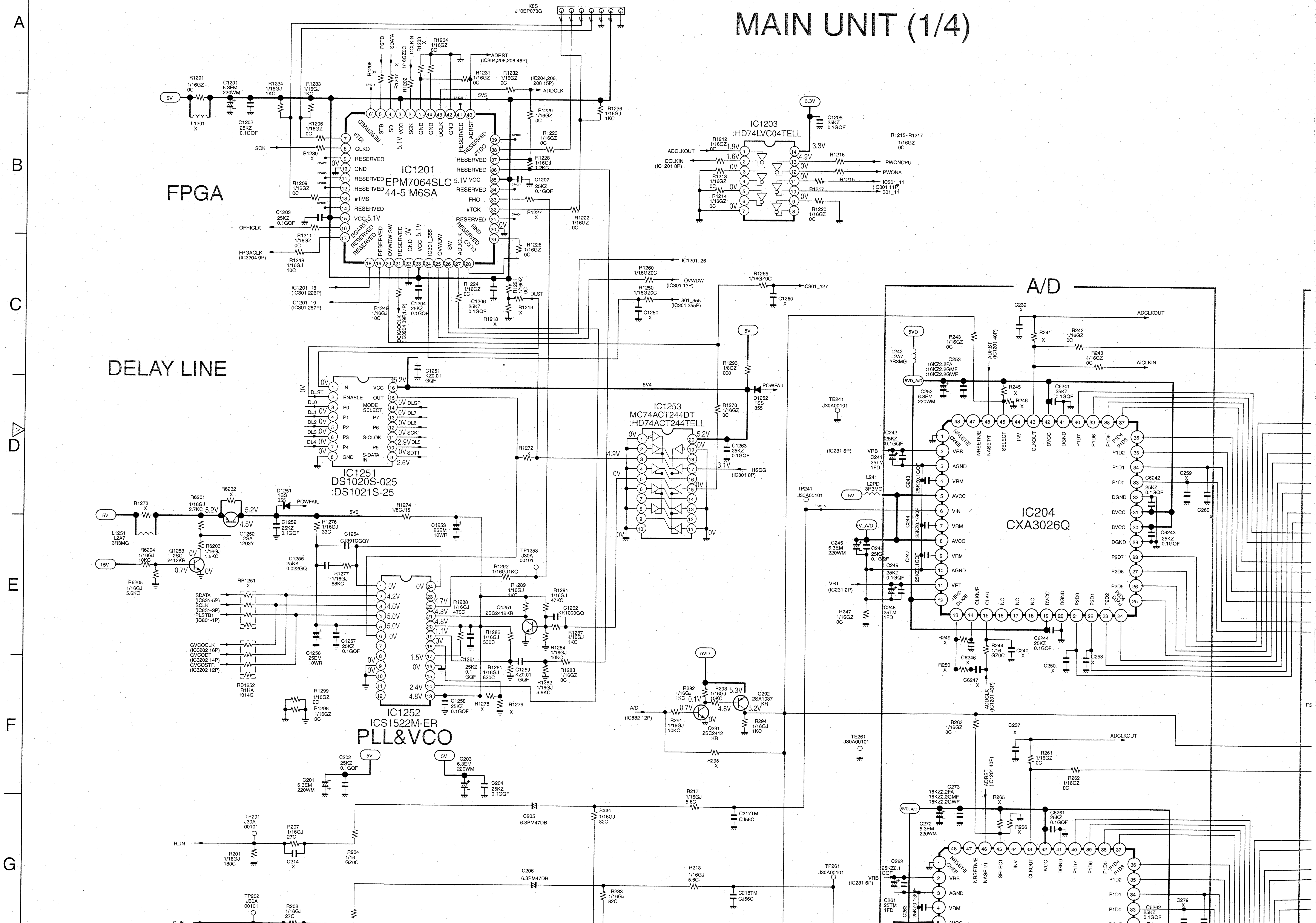
M6YA03E

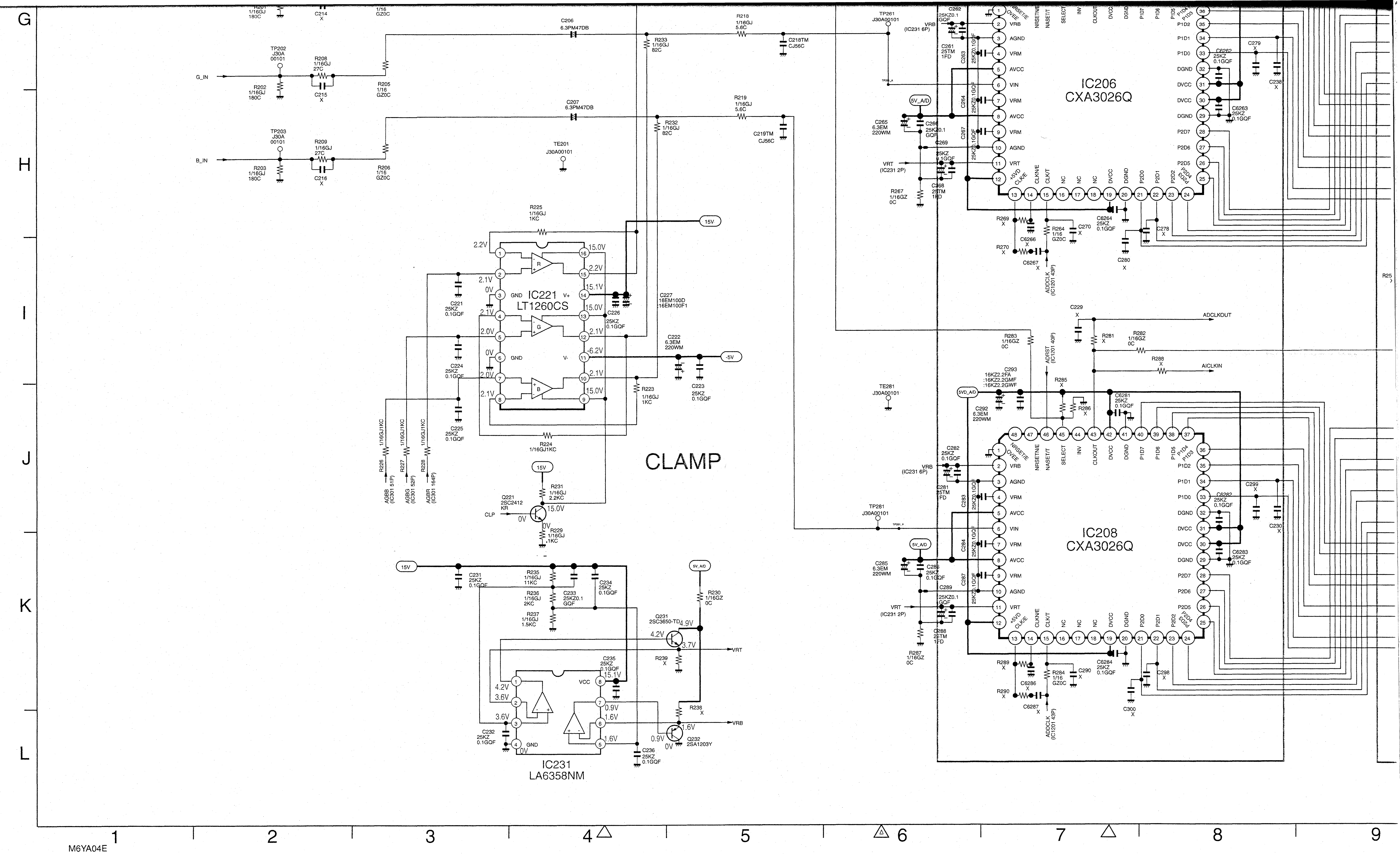


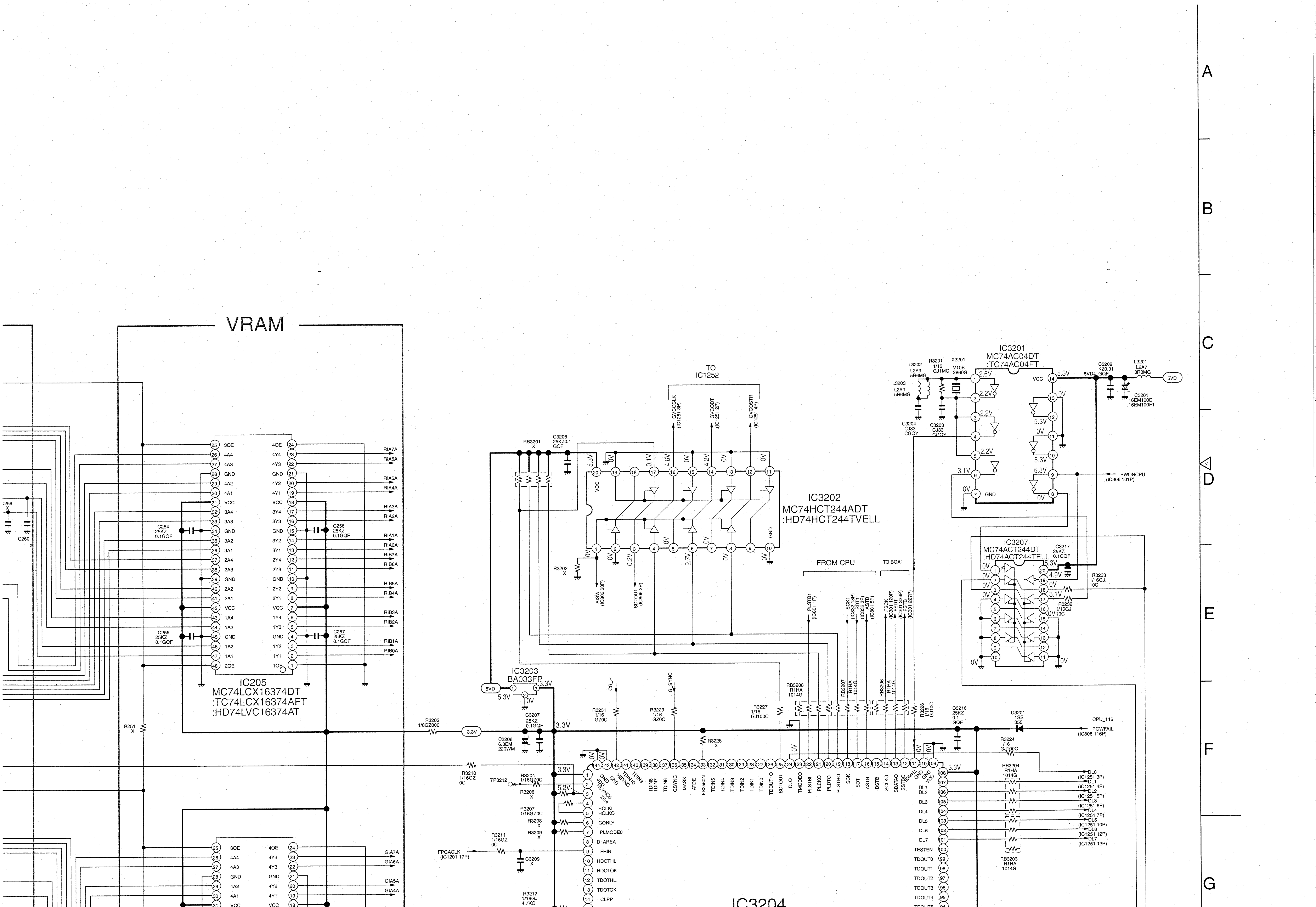
SYNC SEPARATOR
IC1101
LT1253CS8
IC1151
LA7217M
IC101
CXA2076Q
VIDEO/CHROMA
IC1131
TDA9178T/N1
IC107
TC4053BF
IC106
MC14577CF
IC102
TDA8395T/N3
K23S
K23R
K23Q
K23P
S_Y
S_C
C_V
S_SW
AV_SW
AV_R
AV_G
AV_B
NTSC
SCL
SDA
SECAM_ID
BLK
AV_H
AV_V
P-FAIL
H
B
V
G
R
B-Y
R-Y
Y
B
C
D
E
F
G
H

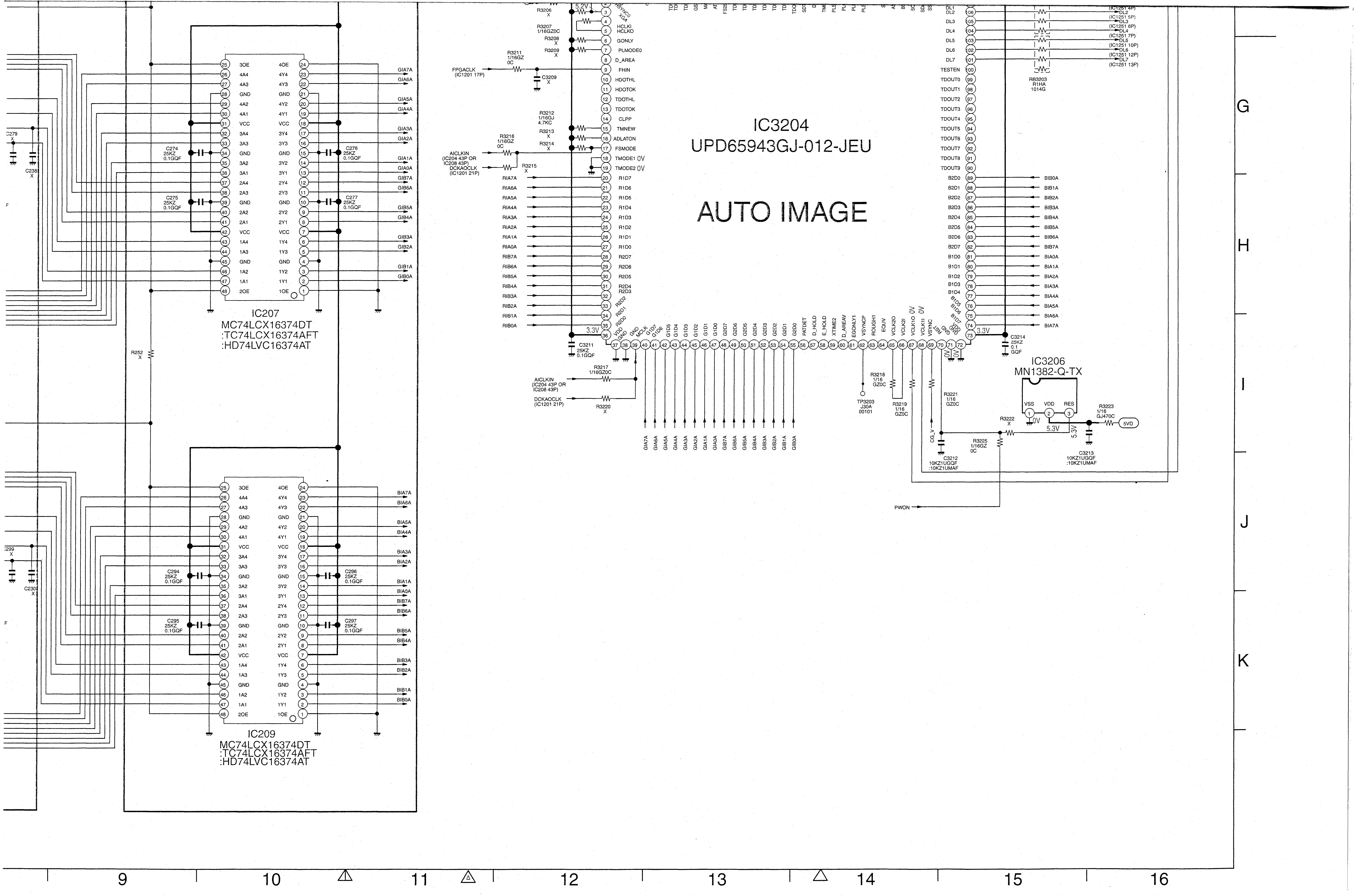

SECAM
IC102
TDA8395T/N3
BASEBAND DELAY LINE
IC104
TDA4665T/V4-T
TDA4665T/V5T
IC106
MC14577CF
IC107
TC4053BF
PICTURE IMPROVEMENT
IC1131
TDA9178T/N1
VIDEO UNIT
B-Y
R-Y
Y
P-FAIL
SECAM_ID
AV_SW
S_SW
SCL
SDA
PAL/NT-SW
SECAM CHROMA
COMP-VIDEO
SECAM-SW
ADEXT1
ADEXT2
ADEXT3
Y-IN
B-Y IN
R-Y IN
Y-OUT
B-Y OUT
R-Y OUT
Q101
Q102
Q112
Q113
Q114
Q161
Q171
Q1131
Q1132
D101
D161
D191
G
H
I
J
K
8
9
10
11
12
13
14
15
16

MAIN UNIT (1/4)


A
B
C
D
E
F
G
FPGA
IC1201
EPM7064SLC
44-5 M6SA
DELAY LINE
IC1251
DS1020S-025
:DS1021S-25
IC1253
MC74ACT244DT
:HD74ACT244TELL
IC1203
:HD74LVC04TELL
IC1252
ICS1522M-ER
PLL&VCO
A/D
IC204
CXA3026Q
K8S
J10EP070G
ADRST
ADDCLK
ADCLKOUT
DCLKIN
PWONCPU
PWONA
AICLKIN
POWFAIL
OVWDW
HSGG
SCK
OFHICLK
FPGACLK
SDATA
SCLK
PLSTB1
GVCOCLK
GVCODT
GVCOSTR
R_IN
G_IN
5V
15V
3.3V
5VD
-5V
5VD_A/D
TP1253
TP201
TP202
TP241
TP261
TE241
TE261
Q1251
Q1253
Q291
Q292
D1251
D1252
L1201
L1251
L241
L242
RB1251
RB1252


G
H
I
J
K
L
1
2
3
4
5
6
7
8
9
CLAMP
IC221
LT1260CS
IC231
LA6358NM
IC206
CXA3026Q
IC208
CXA3026Q
G_IN
B_IN
TP202
J30A
00101
TP203
J30A
00101
TE201
J30A00101
TP261
J30A00101
TP281
J30A00101
TE281
J30A00101
R201
1/16GJ
180C
C214
X
R202
1/16GJ
180C
R203
1/16GJ
180C
R208
1/16GJ
27C
C215
X
R209
1/16GJ
27C
C216
X
R205
1/16
GZ0C
R206
1/16
GZ0C
C206
6.3PM47DB
C207
6.3PM47DB
R233
1/16GJ
82C
R232
1/16GJ
82C
R218
1/16GJ
5.6C
R219
1/16GJ
5.6C
C218TM
CJ56C
C219TM
CJ56C
R225
1/16GJ
1KC
15V
-5V
5V_A/D
5VD_A/D
2.2V
2.1V
0V
2.0V
15.0V
15.1V
-6.2V
GND
V+
V-
C221
25KZ
0.1GQF
C224
25KZ
0.1GQF
C225
25KZ
0.1GQF
C226
25KZ
0.1GQF
C227
16EM100D
16EM100F1
C222
6.3EM
220WM
C223
25KZ
0.1GQF
R223
1/16GJ
1KC
R224
1/16GJ1KC
R226
R227
R228
1/16GJ1KC
AGBB
(IC301 51P)
AGBG
(IC301 52P)
AGBR
(IC301 164P)
Q221
2SC2412
KR
CLP
R231
1/16GJ
2.2KC
R229
1/16GJ
1KC
C231
25KZ
0.1GQF
R235
1/16GJ
11KC
R236
1/16GJ
2KC
R237
1/16GJ
1.5KC
C233
25KZ0.1
GQF
C234
25KZ
0.1GQF
R230
1/16GZ
0C
Q231
2SC3650-TD
4.9V
4.2V
3.7V
3.6V
R239
X
VRT
C235
25KZ
0.1GQF
VCC
C232
25KZ
0.1GQF
0.9V
1.6V
R238
X
VRB
Q232
2SA1203Y
C236
25KZ
0.1GQF
C262
25KZ0.1
GQF
VRB
(IC231 6P)
C261
25TM
1FD
C263
25KZ0.1GQF
C264
25KZ0.1GQF
C265
6.3EM
220WM
C266
25KZ0.1
GQF
C267
25KZ0.1GQF
C269
25KZ
0.1GQF
VRT
(IC231 2P)
R267
1/16GZ
0C
C268
25TM
1FD
NRSETIE
OVEE
NRSETNE
NASET/T
SELECT
INV
CLKOUT
DVCC
DGND
P1D7
P1D6
P1D5
P1D4
P1D3
P1D2
P1D1
P1D0
AGND
VRM
AVCC
VIN
+5VD
CLK/E
CLKN/E
CLK/T
NC
P2D0
P2D1
P2D2
P2D3
P2D4
P2D5
P2D6
P2D7
C279
X
C6262
25KZ
0.1GQF
C238
X
C6263
25KZ
0.1GQF
R269
X
R270
X
C6266
X
C6267
X
R264
1/16
GZ0C
C270
X
C6264
25KZ
0.1GQF
C278
X
C280
X
ADDCLK
(IC1201 43P)
R25
C229
X
ADCLKOUT
R283
1/16GZ
0C
R281
X
R282
1/16GZ
0C
ADRST
(IC1201 40P)
R288
X
AICLKIN
C293
16KZ2.2FA
:16KZ2.2GMF
:16KZ2.2GWF
R285
X
R286
X
C6281
25KZ
0.1GQF
C292
6.3EM
220WM
C282
25KZ
0.1GQF
C281
25TM
1FD
C283
25KZ0.1GQF
C284
25KZ0.1GQF
C285
6.3EM
220WM
C286
25KZ
0.1GQF
C287
25KZ0.1GQF
C289
25KZ0.1
GQF
R287
1/16GZ
0C
C288
25TM
1FD
C299
X
C6282
25KZ
0.1GQF
C230
X
C6283
25KZ
0.1GQF
R289
X
R290
X
C6286
X
C6287
X
R284
1/16
GZ0C
C290
X
C6284
25KZ
0.1GQF
C298
X
C300
X

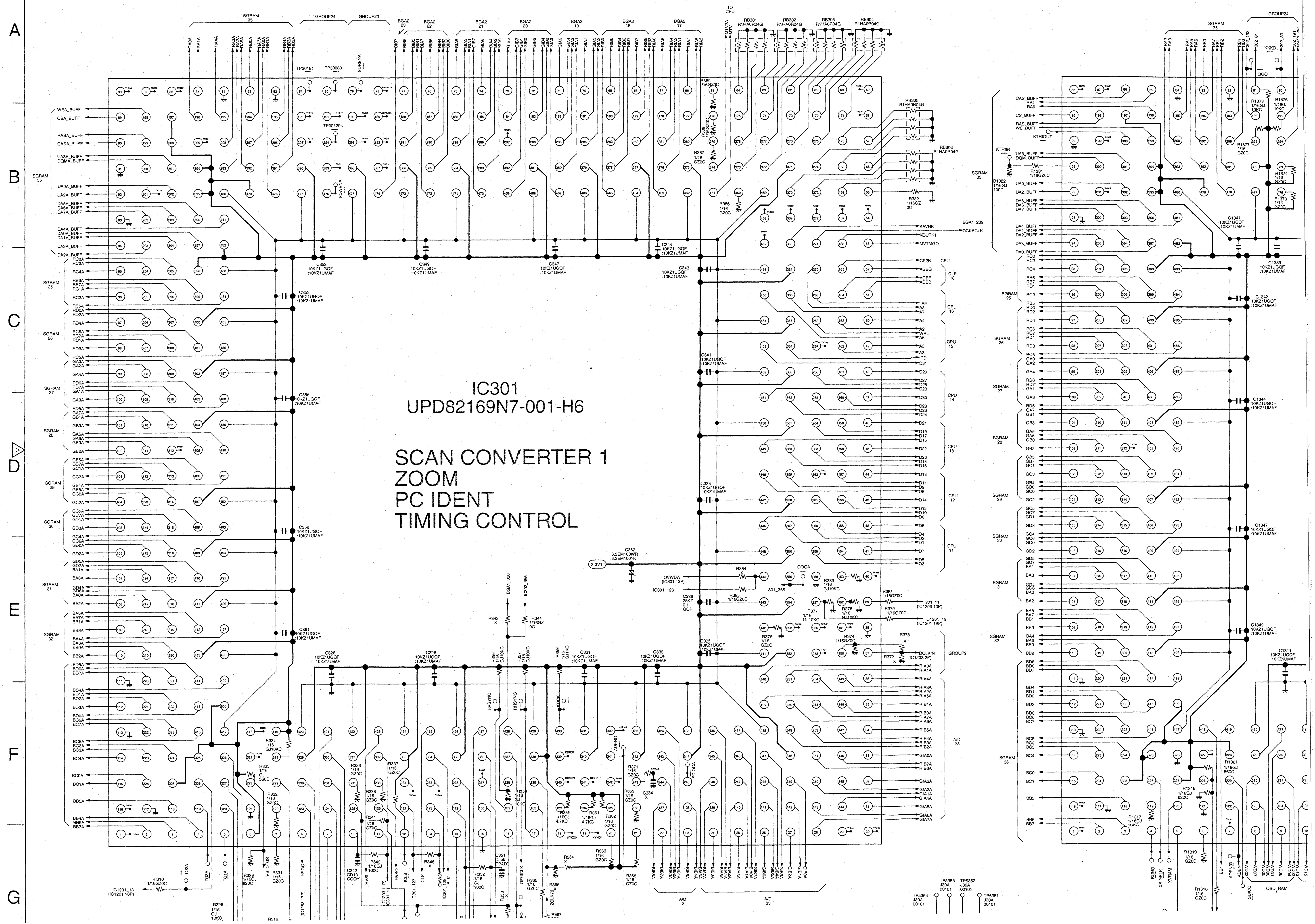

A
B
C
D
E
F
G
VRAM
IC205
MC74LCX16374DT
:TC74LCX16374AFT
:HD74LVC16374AT
C254 25KZ 0.1GQF
C255 25KZ 0.1GQF
C256 25KZ 0.1GQF
C257 25KZ 0.1GQF
C259 X
C260 X
R251 X
RIA7A
RIA6A
RIA5A
RIA4A
RIA3A
RIA2A
RIA1A
RIA0A
RIB7A
RIB6A
RIB5A
RIB4A
RIB3A
RIB2A
RIB1A
RIB0A
GIA7A
GIA6A
GIA5A
GIA4A
TO IC1252
GVCOCLK (IC1251 3P)
GVCODT (IC1251 2P)
GVCOSTR (IC1251 4P)
RB3201 X
C3206 25KZ0.1 GQF
IC3202
MC74HCT244ADT
:HD74HCT244TVELL
R3202 X
AISW (IC806 30P)
SDTOUT (IC806 2P)
IC3203
BA033FP
5VD
5.3V
3.3V
0V
C3207 25KZ 0.1GQF
C3208 6.3EM 220WM
R3203 1/8GZ000
3.3V
IC3201
MC74AC04DT
:TC74AC04FT
L3202 L2A9 5R6MG
L3203 L2A9 5R6MG
R3201 1/16 GJ1MC
X3201 V10B 2860G
C3204 CJ33 CGQY
C3203 CJ33 CGQY
C3202 KZ0.01 GQF
L3201 L2A7 3R3MG
C3201 16EM100D :16EM100F1
5VD4
5VD
VCC
GND
PWONCPU (IC806 101P)
IC3207
MC74ACT244DT
:HD74ACT244TELL
C3217 25KZ 0.1GQF
R3233 1/16GJ 10C
R3232 1/16GJ 10C
FROM CPU
TO BGA1
PLSTB1 (IC801 1P)
SCK1 (IC832 18P)
SDT1 (IC832 3P)
ASTB (IC801 5P)
FSCK (IC301 120P)
FSDT (IC301 328P)
FSTB (IC301 227P)
RB3208 R1HA 1014G
RB3207 R1HA 1014G
RB3206 R1HA 1014G
R3226 1/16 GJ10C
R3227 1/16 GJ100C
CG_H
G_SYNC
R3231 1/16 GZ0C
R3229 1/16 GZ0C
R3228 X
C3216 25KZ 0.1 GQF
D3201 1SS 355
CPU_116
POWFAIL (IC806 116P)
R3224 1/16 GJ100C
RB3204 R1HA 1014G
RB3203 R1HA 1014G
DL0 (IC1251 3P)
DL1 (IC1251 4P)
DL2 (IC1251 5P)
DL3 (IC1251 6P)
DL4 (IC1251 7P)
DL5 (IC1251 10P)
DL6 (IC1251 12P)
DL7 (IC1251 13P)
R3210 1/16GZ 0C
TP3212
R3204 1/16GZ0C
R3206 X
R3207 1/16GZ0C
R3208 X
R3209 X
R3211 1/16GZ 0C
FPGACLK (IC1201 17P)
C3209 X
R3212 1/16GJ 4.7KC
VDD
GND
VSYNC0
HSYNC
XGA
HCLKI
HCLKO
GONLY
PLMODE0
D_AREA
FHIN
HDOTHL
HDOTOK
TDOTHL
TDOTOK
CLPP
TDIN10
TDIN9
TDIN8
TDIN7
TDIN6
GSYNC
MASX
ATDE
FS2560N
TDIN5
TDIN4
TDIN3
TDIN2
TDIN1
TDIN0
TDOUT10
SDTOUT
DLO
TMODE0
PLSTBI
PLCKO
PLDTO
PLSTBO
SCK
SDT
ASTB
BSTB
SCLKO
SDATAO
SSTBO
ADMHZ
DL1
DL2
DL3
DL4
DL5
DL6
DL7
TESTEN
TDOUT0
TDOUT1
TDOUT2
TDOUT3
TDOUT4
IC3204

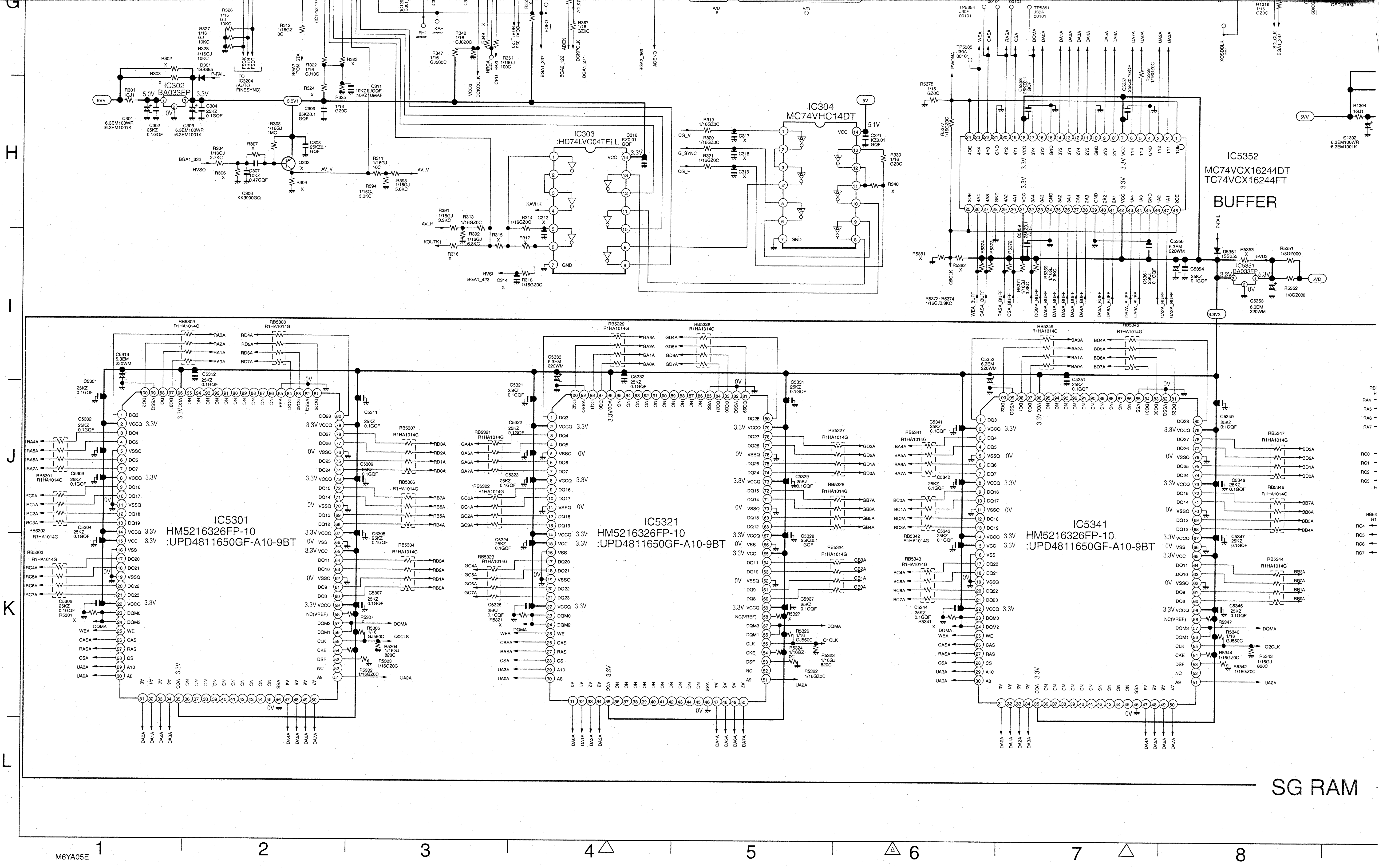

IC207
MC74LCX16374DT
:TC74LCX16374AFT
:HD74LVC16374AT
IC209
MC74LCX16374DT
:TC74LCX16374AFT
:HD74LVC16374AT
IC3204
UPD65943GJ-012-JEU
AUTO IMAGE
IC3206
MN1382-Q-TX
VSS
VDD
RES
5VD
PWON
FPGACLK (IC1201 17P)
AICLKIN (IC204 43P OR IC208 43P)
DCKAOCLK (IC1201 21P)
R3211 1/16GZ 0C
C3209 X
R3212 1/16GJ 4.7KC
R3216 1/16GZ 0C
R3215 X
R3217 1/16GZ0C
R3220 X
R3218 1/16 GZ0C
R3219 1/16 GZ0C
R3221 1/16 GZ0C
R3222 X
R3223 1/16 GJ470C
R3225 1/16GZ 0C
C3211 25KZ 0.1GQF
C3212 10KZ1UGQF :10KZ1UMAF
C3213 10KZ1UGQF :10KZ1UMAF
C3214 25KZ 0.1 GQF
TP3203 J30A 00101
RB3203 R1HA 1014G
C274 25KZ 0.1GQF
C275 25KZ 0.1GQF
C276 25KZ 0.1GQF
C277 25KZ 0.1GQF
C294 25KZ 0.1GQF
C295 25KZ 0.1GQF
C296 25KZ 0.1GQF
C297 25KZ 0.1GQF
R252 X
3.3V
5.3V
0V
9
10
11
12
13
14
15
16
G
H
I
J
K

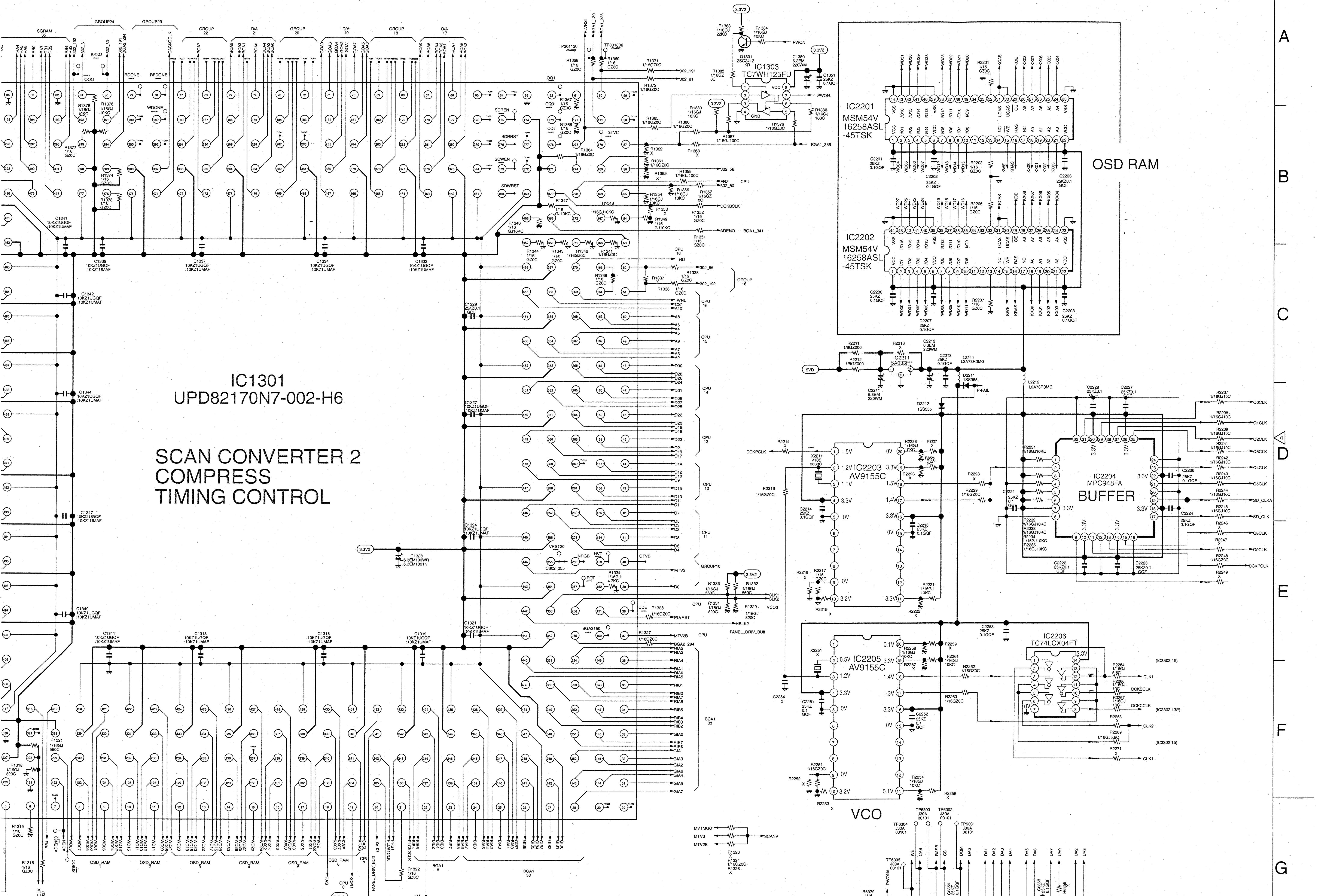
S5

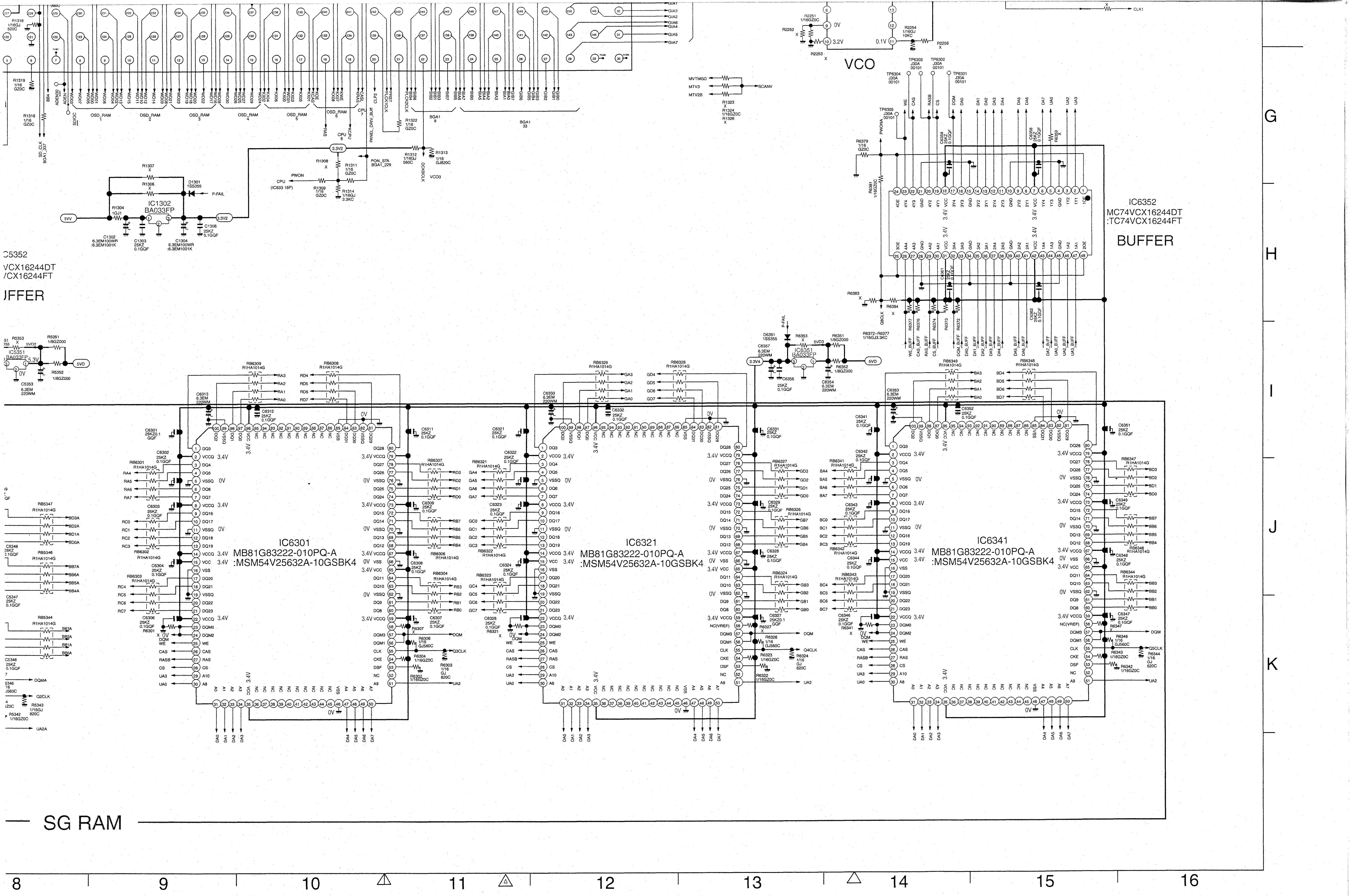
MODEL NO. PLC-SP10E/SP10B/SP10
SM515049

MAIN UNIT (2/4)

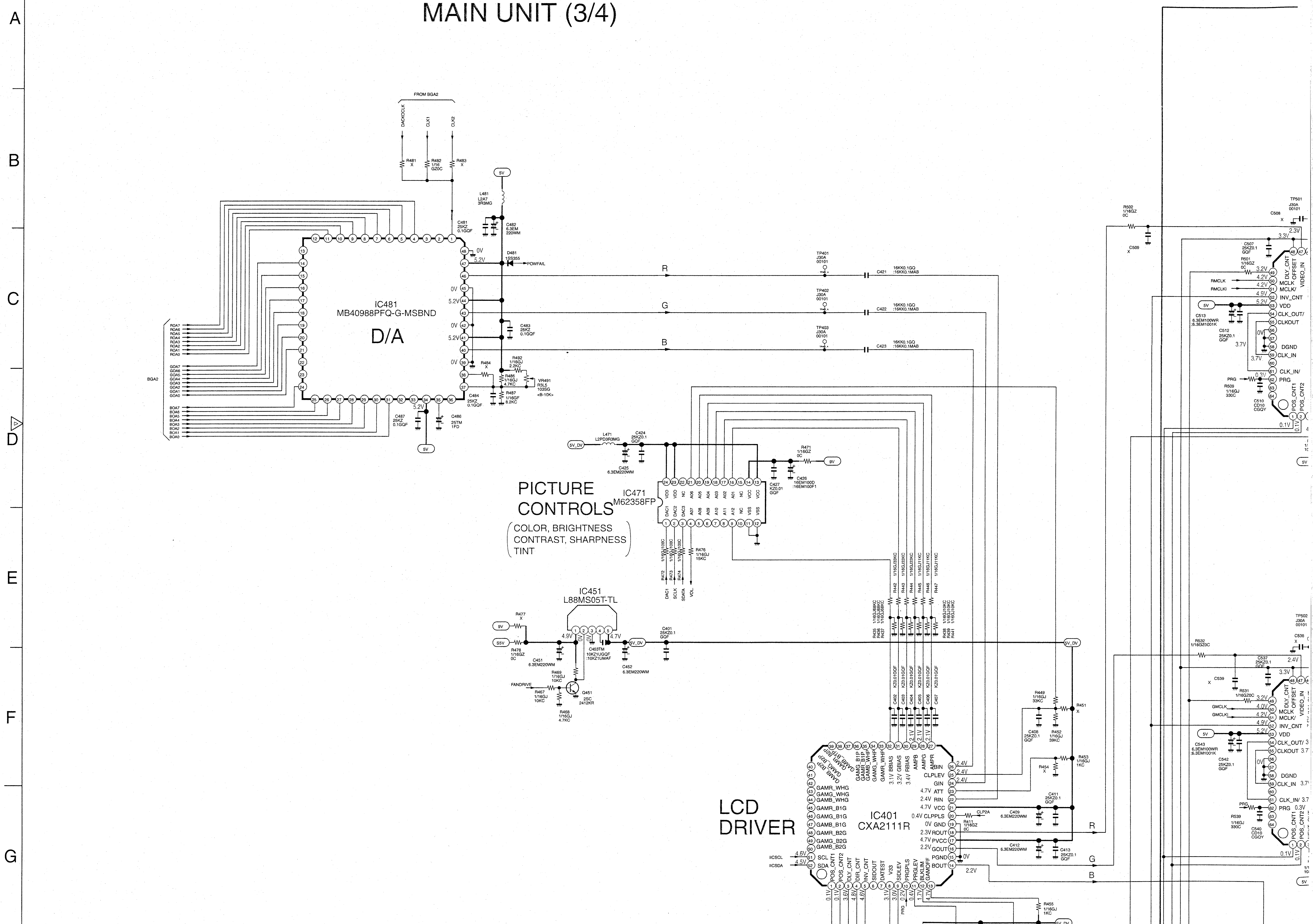

A
B
C
D
E
F
G
IC301
UPD82169N7-001-H6
SCAN CONVERTER 1
ZOOM
PC IDENT
TIMING CONTROL
SGRAM 35
GROUP24
GROUP23
BGA2 23
BGA2 22
BGA2 21
BGA2 20
BGA2 19
BGA2 18
BGA2 17
TO CPU
RB301 R1HA0R04G
RB302 R1HA0R04G
RB303 R1HA0R04G
RB304 R1HA0R04G
RB305 R1HA0R04G
RB306 R1HA0R04G
WEA_BUFF
CSA_BUFF
RASA_BUFF
CASA_BUFF
UA3A_BUFF
DQMA_BUFF
UA0A_BUFF
UA2A_BUFF
DA5A_BUFF
DA6A_BUFF
DA7A_BUFF
DA4A_BUFF
DA0A_BUFF
DA1A_BUFF
DA3A_BUFF
DA2A_BUFF
SGRAM 25
SGRAM 26
SGRAM 27
SGRAM 28
SGRAM 29
SGRAM 30
SGRAM 31
SGRAM 32
SGRAM 36
TP30181
TP30080
TP301294
SDRENA
SDWENA
KAVHK
KDUTK1
MVTMGO
BGA1_239
OCKPCLK
CPU
CLP 16
CPU 16
CPU 15
CPU 14
CPU 13
CPU 12
CPU 11
GROUP9
A/D 33
A/D 8
C352 10KZ1UGQF :10KZ1UMAF
C349 10KZ1UGQF :10KZ1UMAF
C347 10KZ1UGQF :10KZ1UMAF
C344 10KZ1UGQF :10KZ1UMAF
C343 10KZ1UGQF :10KZ1UMAF
C353 10KZ1UGQF :10KZ1UMAF
C356 10KZ1UGQF :10KZ1UMAF
C358 10KZ1UGQF :10KZ1UMAF
C361 10KZ1UGQF :10KZ1UMAF
C341 10KZ1UGQF :10KZ1UMAF
C338 10KZ1UGQF :10KZ1UMAF
C335 10KZ1UGQF :10KZ1UMAF
C326 10KZ1UGQF :10KZ1UMAF
C328 10KZ1UGQF :10KZ1UMAF
C331 10KZ1UGQF :10KZ1UMAF
C333 10KZ1UGQF :10KZ1UMAF
C362 6.3EM100WR :6.3EM1001K
3.3V1
OVWDW (IC301 13P)
IC301_126
301_355
OOOA
R384
R385 1/16GZ0C
R383 1/16 GJ10KC
R381 1/16GZ0C
R379 1/16GZ0C
R377 1/16 GJ10KC
R378 1/16 GJ10KC
R376 1/16 GZ0C
R374 1/16GZ0C
R373 X
R372 X
OCLKIN (IC1203 2P)
301_11 (IC1203 10P)
IC1201_19 (IC1201 19P)
BGA1_336
IC302_355
R343 X
R344 1/16GZ 0C
R356 1/16 GJ10KC
R357 1/16 GJ10KC
R358 1/16 GJ10KC
RVSYNC
RHSYNC
KOCK
R334 1/16 GJ10KC
R333 1/16 GJ 560C
R332 1/16 GZ0C
R336 1/16 GZ0C
R337 1/16 GZ0C
R338 1/16 GZ0C
R341 1/16 GZ0C
R359 1/16GJ 4.7KC
R361 1/16GJ 4.7KC
R362 1/16 GZ0C
R369 1/16 GZ0C
R371 1/16 GZ0C
C334 X
ADENO
GTVA
SDOCA
R310 1/16GZ0C
IC1201_18 (IC1201 18P)
R326 1/16 GJ 10KC
R329 1/16GJ 820C
R331 1/16 GZ0C
SD_CLKA
TO2A
TO3A
TD1A
HSGG
(IC1253 17P)
C342 CD10 CGQY
R342 1/16GJ 100C
HVSI
HVSO
IC1253 11P IC301_11
ICLB
IC301_127
CLP
R346 X
OVWDW
IC301_128
BLK1
R352 1/16 GJ 100C
C351 C356 CGQY
R353
OFHCLK
R365 1/16 GZ0C
R364 X
R366 X
ZCLK70
R363 1/16 GZ0C
R368 1/16 GZ0C
R367
R312
TP5354 J30A 00101
TP5353 J30A 00101
TP5352 J30A 00101
TP5351 J30A 00101
CAS_BUFF
RA1
RA0
CS_BUFF
RAS_BUFF
WE_BUFF
KTRIOUT
KTRIIN
UA3_BUFF
DQM_BUFF
R1381 1/16GZ0C
R1382 1/16GJ 100C
UA0_BUFF
UA2_BUFF
DA5_BUFF
DA6_BUFF
DA7_BUFF
DA4_BUFF
DA1_BUFF
DA2_BUFF
DA3_BUFF
DA0_BUFF
R1378 1/16GJ 10KC
R1376 1/16GJ 10KC
R1377 1/16 GZ0C
R1374 1/16 GZ0C
R1373 1/16 GZ0C
C1341 10KZ1UGQF :10KZ1UMAF
C1339 10KZ1UGQF :10KZ1UMAF
C1342 10KZ1UGQF :10KZ1UMAF
C1344 10KZ1UGQF :10KZ1UMAF
C1347 10KZ1UGQF :10KZ1UMAF
C1349 10KZ1UGQF :10KZ1UMAF
C1311 10KZ1UGQF :10KZ1UMAF
KKKO
302_192
302_81
302_80
302_191
R1321 1/16GJ 560C
R1318 1/16GJ 820C
R1317 1/16GJ 10KC
R1319 1/16 GZ0C
R1316 1/16 GZ0C
BLINO
XSIGBLK
XVRAM
BB4
ADEN
SDOC
OSD_RAM 1

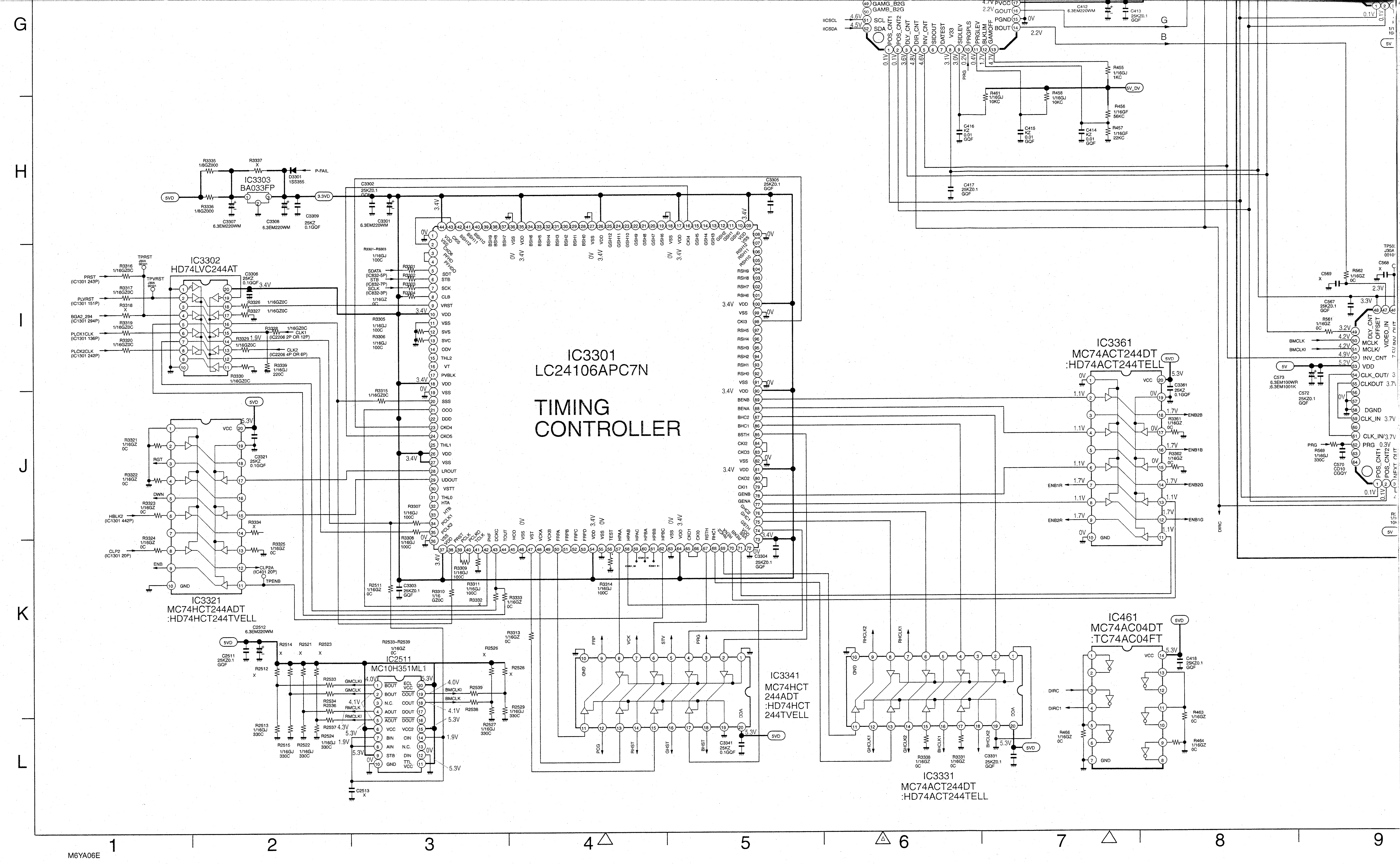

G
H
I
J
K
L
IC302
BA033FP
IC303
:HD74LVC04TELL
IC304
MC74VHC14DT
IC5352
MC74VCX16244DT
TC74VCX16244FT
BUFFER
IC5351
BA033FP
IC5301
HM5216326FP-10
:UPD4811650GF-A10-9BT
IC5321
HM5216326FP-10
:UPD4811650GF-A10-9BT
IC5341
HM5216326FP-10
:UPD4811650GF-A10-9BT
5VV
5VD
3.3V1
3.3V3
P-FAIL
HVSO
AV_V
AV_H
KOUTK1
HVSI
CG_V
G_SYNC
CG_H
DQMA
Q0CLK
Q1CLK
Q2CLK
UA2A
SG RAM
M6YA05E
1
2
3
4
5
6
7
8

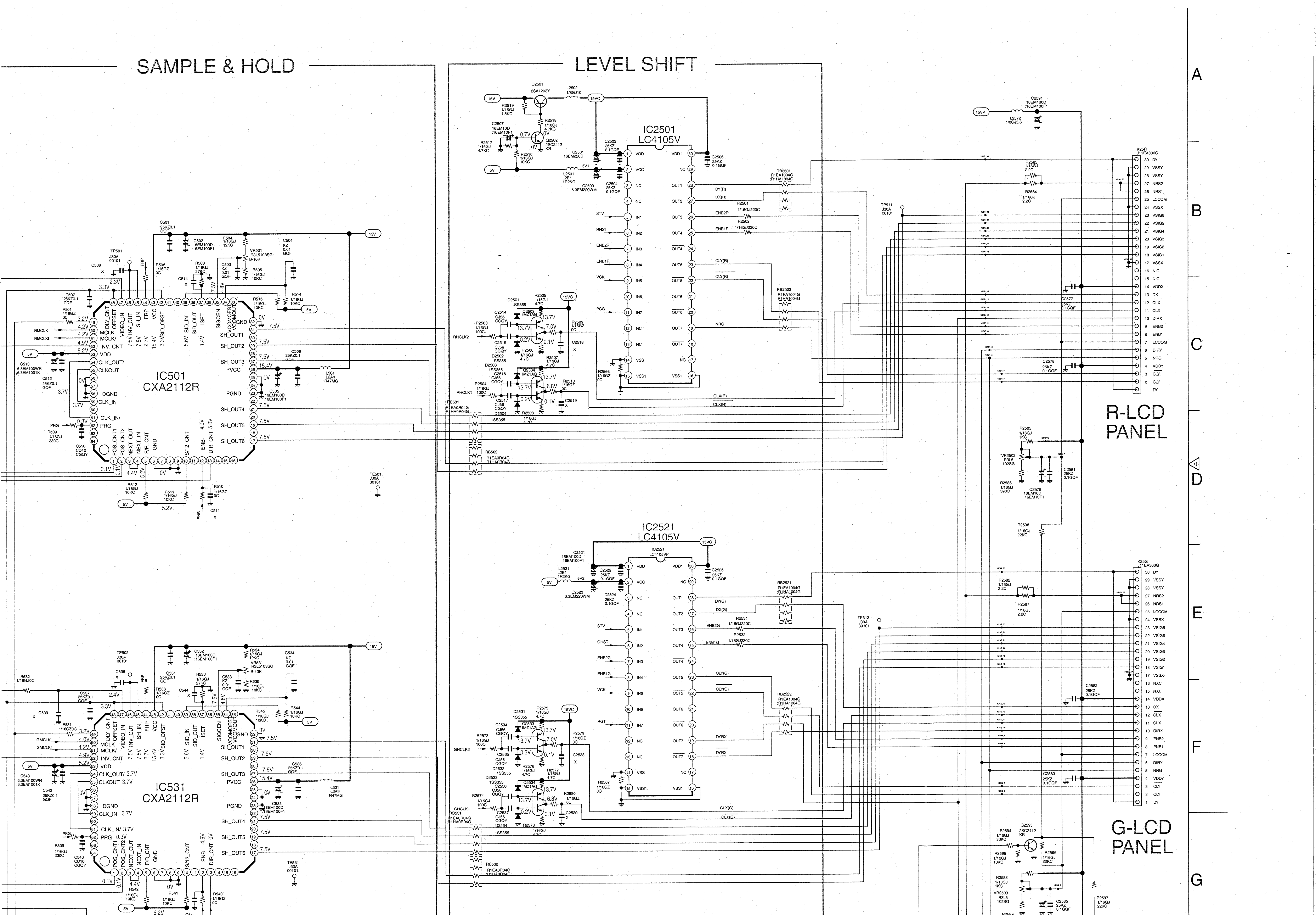

IC1301
UPD82170N7-002-H6
SCAN CONVERTER 2
COMPRESS
TIMING CONTROL
OSD RAM
IC2201
MSM54V
16258ASL
-45TSK
IC2202
MSM54V
16258ASL
-45TSK
IC1303
TC7WH125FU
IC2211
BA033FP
IC2203
AV9155C
IC2205
AV9155C
VCO
IC2204
MPC948FA
BUFFER
IC2206
TC74LCX04FT
GROUP24
GROUP23
GROUP 22
D/A 21
GROUP 20
D/A 19
GROUP 18
D/A 17
SGRAM 35
GROUP10
BGA1 33
OSD_RAM
PWON
BGA1_336
FRZ
DCKBCLK
ADENO
BGA1_341
P-FAIL
Q0CLK
Q1CLK
Q2CLK
Q3CLK
Q4CLK
Q5CLK
SD_CLKA
SD_CLK
Q8CLK
Q9CLK
DCKPCLK
CLK1
CLK2
DCKCCLK
MTV3
MTV2B
SCANV
MVTMGO
PANEL_DRIV_BUff
5VD
3.3V2
A
B
C
D
E
F
G

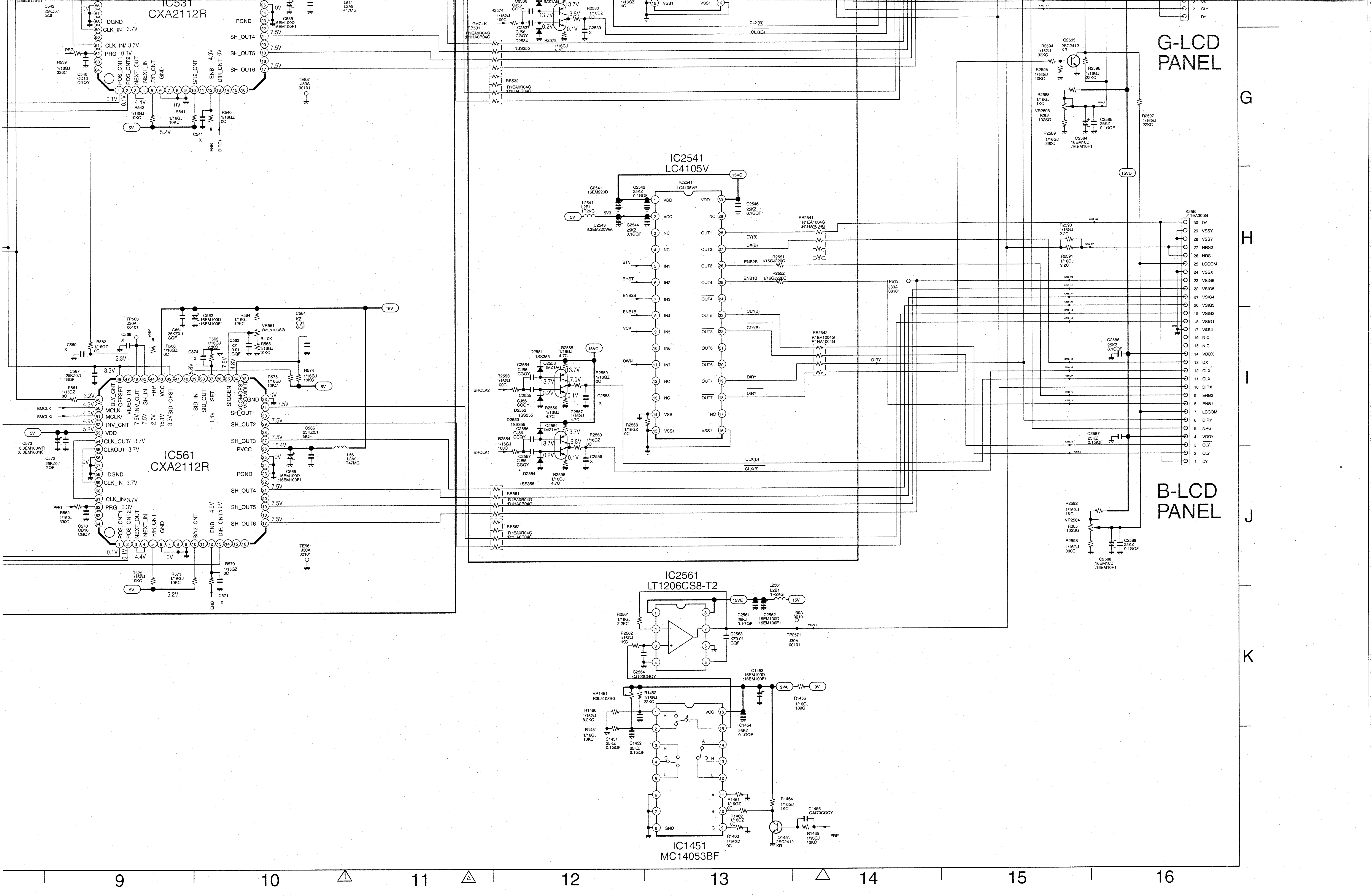

VCO
IC6352
MC74VCX16244DT
:TC74VCX16244FT
BUFFER
IC1302
BA033FP
C5352
VCX16244DT
/CX16244FT
JFFER
IC5351
BA033FP
IC6351
BA033FP
IC6301
MB81G83222-010PQ-A
:MSM54V25632A-10GSBK4
IC6321
MB81G83222-010PQ-A
:MSM54V25632A-10GSBK4
IC6341
MB81G83222-010PQ-A
:MSM54V25632A-10GSBK4
SG RAM
OSD_RAM
BGA1
SCANV
P-FAIL
5VV
3.3V2
5VD
3.3V4
CLK1
G
H
I
J
K
8
9
10
11
12
13
14
15
16

MAIN UNIT (3/4)


A
B
C
D
E
F
G
FROM BGA2
DACKOCLK
CLK1
CLK2
R481 X
R482 1/16 GZ0C
R483 X
5V
L481 L2A7 3R3MG
C481 25KZ 0.1GQF
C482 6.3EM 220WM
D481 1SS355
POWFAIL
IC481
MB40988PFQ-G-MSBND
D/A
BGA2
C483 25KZ 0.1GQF
R484 X
R492 1/16GJ 2.2KC
R486 1/16GJ 4.7KC
VR491 R3L5 103SG <B-10K>
R487 1/16GF 8.2KC
C484 25KZ 0.1GQF
C487 25KZ 0.1GQF
C486 25TM 1FD
TP401 J30A 00101
TP402 J30A 00101
TP403 J30A 00101
R
G
B
C421 16KK0.1GQ :16KK0.1MAB
C422 16KK0.1GQ :16KK0.1MAB
C423 16KK0.1GQ :16KK0.1MAB
5V_DV
L471 L2PD3R3MG
C424 25KZ0.1 GQF
C425 6.3EM220WM
R471 1/16GZ 0C
9V
C427 KZ0.01 GQF
C426 16EM100D :16EM100F1
PICTURE CONTROLS
(COLOR, BRIGHTNESS CONTRAST, SHARPNESS TINT)
IC471
M62358FP
R476 1/16GJ 15KC
DAC1
SCLK
SDATA
VOL
IC451
L88MS05T-TL
R477 X
S5V
R478 1/16GZ 0C
C451 6.3EM220WM
C453TM 10KZ1UGQF :10KZ1UMAF
C452 6.3EM220WM
C401 25KZ0.1 GQF
R469 1/16GJ 10KC
FANDRIVE
R467 1/16GJ 10KC
Q451 2SC 2412KR
R468 1/16GJ 4.7KC
LCD DRIVER
IC401
CXA2111R
R449 1/16GJ 33KC
R451 X
C408 25KZ0.1 GQF
R452 1/16GJ 39KC
R453 1/16GJ 1KC
R454 X
C411 25KZ0.1 GQF
CLP2A
C409 6.3EM220WM
R411 1/16GZ 0C
C412 6.3EM220WM
C413 25KZ0.1 GQF
R455 1/16GJ 1KC
IICSCL
IICSDA
R502 1/16GZ 0C
C509 X
C508 X
TP501 J30A 00101
C507 25KZ0.1 GQF
R501 1/16GZ 0C
RMCLK
RMCLKI
C513 6.3EM100WR :6.3EM1001K
C512 25KZ0.1 GQF
PRG
R509 1/16GJ 330C
C510 CD10 CGQY
DLY_CNT
OFFSET
VIDEO_IN
MCLK
MCLK/
INV_CNT
VDD
CLK_OUT/
CLKOUT
DGND
CLK_IN
CLK_IN/
POS_CNT1
POS_CNT2
TP502 J30A 00101
C536 X
R532 1/16GZ0C
C537 25KZ0.1 GQF
C539 X
R531 1/16GZ0C
GMCLK
GMCLKI
C543 6.3EM100WR :6.3EM1001K
C542 25KZ0.1 GQF
R539 1/16GJ 330C
C540 CD10 CGQY


G
H
I
J
K
L
1
2
3
4
5
6
7
8
9
M6YA06E
IC3301
LC24106APC7N
TIMING
CONTROLLER
IC3302
HD74LVC244AT
IC3303
BA033FP
D3301
1SS355
P-FAIL
5VD
3.3VD
IC3321
MC74HCT244ADT
:HD74HCT244TVELL
IC2511
MC10H351ML1
IC3341
MC74HCT
244ADT
:HD74HCT
244TVELL
IC3331
MC74ACT244DT
:HD74ACT244TELL
IC3361
MC74ACT244DT
:HD74ACT244TELL
IC461
MC74AC04DT
:TC74AC04FT
PRST
(IC1301 243P)
PLVRST
(IC1301 151P)
BGA2_294
(IC1301 294P)
PLCK1CLK
(IC1301 136P)
PLCK2CLK
(IC1301 242P)
HBLK2
(IC1301 442P)
CLP2
(IC1301 20P)
CLP2A
(IC401 20P)
TPENB
ENB
RGT
DWN
SDATA
(IC832-5P)
STB
(IC832-7P)
SCLK
(IC832-3P)
CLK1
(IC2206 2P OR 12P)
CLK2
(IC2206 4P OR 6P)
GMCLKI
GMCLK
RMCLK
RMCLKI
BMCLKI
BMCLK
ENB2B
ENB1B
ENB2G
ENB1G
ENB1R
ENB2R
DIRC
DIRC1
FRP
VCK
STV
PRG
PCG
RHST
GHST
BHST
RHCLK2
RHCLK1
GHCLK1
GHCLK2
BHCLK1
BHCLK2
IICSCL
IICSDA
SCL
SDA
POS_CNT1
POS_CNT2
DLY_CNT
DIR_CNT
INV_CNT
SIDOUT
DATEST
V33
SIDLEV
PRGLEV
PRGPLS
BLKLIM
GAMOFF
PVCC
GOUT
PGND
BOUT
GAMG_B2G
GAMB_B2G
5V_DV
MCLK
MCLK/
INV_CNT
VDD
CLK_OUT/
CLKOUT
DGND
CLK_IN
CLK_IN/
PRG
OFFSET
VIDEO_IN
DLY_CNT
NEXT_OUT
5V
3.4V
3.3V
5.3V
0V

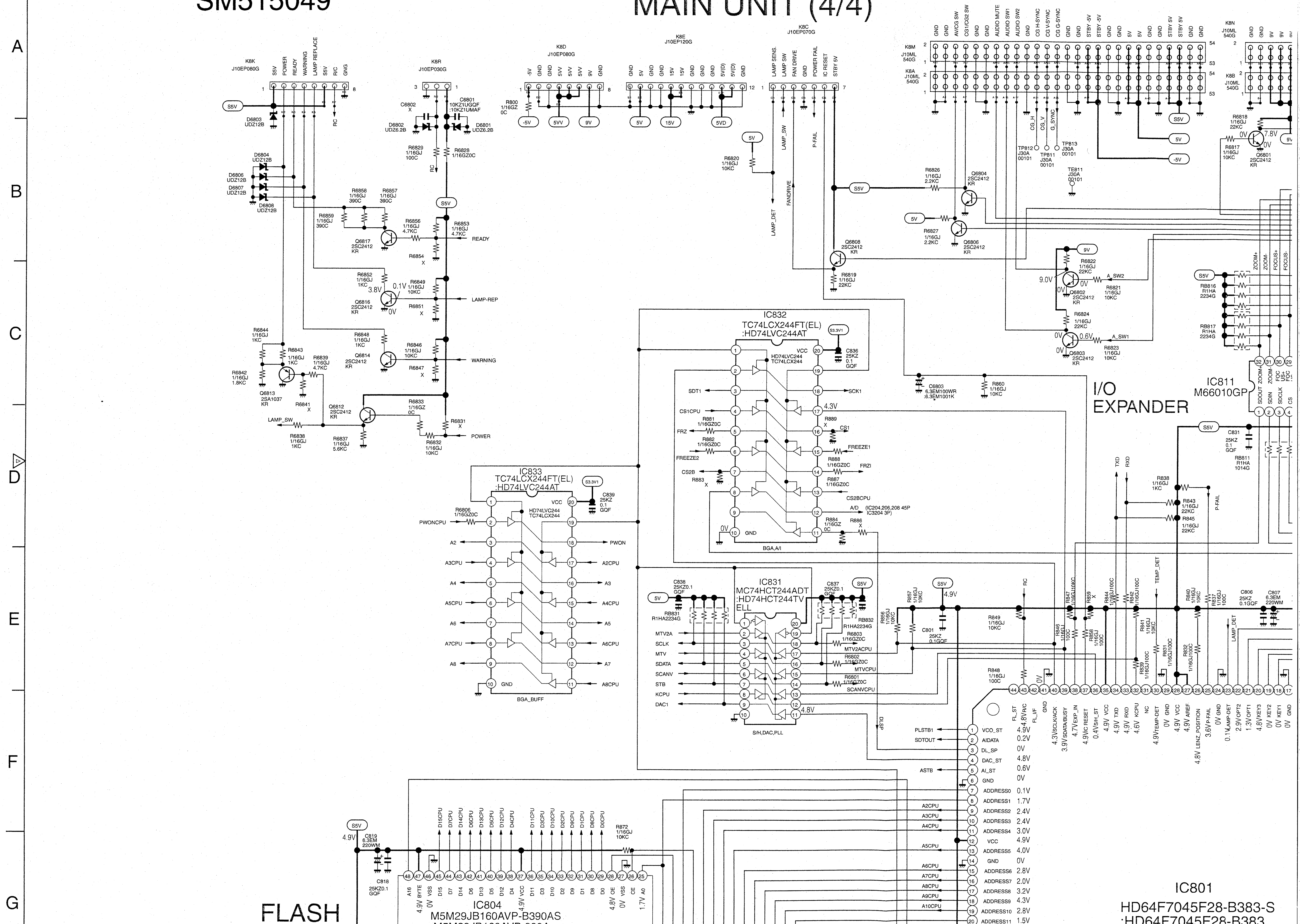

SAMPLE & HOLD
LEVEL SHIFT
A
B
C
D
E
F
G
IC501
CXA2112R
IC531
CXA2112R
IC2501
LC4105V
IC2521
LC4105V
Q2501
2SA1203Y
Q2502
2SC2412
L2502
L2501
L2521
L2572
Q2503
IMZ1AG
Q2504
IMZ1AG
Q2533
IMZ1AG
Q2534
IMZ1AG
Q2595
2SC2412
RB2501
RB2502
RB2521
RB2522
RB501
RB502
RB531
RB532
TP501
TP502
TP511
TP512
TE501
TE531
VR501
VR531
VR2502
VR2503
15V
5V
15VC
15VP
RMCLK
RMCLKI
GMCLK
GMCLKI
PRG
RHCLK1
RHCLK2
GHCLK1
GHCLK2
STV
RHST
GHST
ENB2R
ENB1R
ENB2G
ENB1G
VCK
PCG
RGT
DY(R)
DX(R)
CLY(R)
CLX(R)
NRG
DY(G)
DX(G)
CLY(G)
CLX(G)
DYRX
K25R
J11EA300G
K25G
J11EA300G
30 DY
29 VSSY
28 VSSY
27 NRS2
26 NRS1
25 LCCOM
24 VSSX
23 VSIG6
22 VSIG5
21 VSIG4
20 VSIG3
19 VSIG2
18 VSIG1
17 VSSX
16 N.C.
15 N.C.
14 VDDX
13 DX
12 CLX
11 CLX
10 DIRX
9 ENB2
8 ENB1
7 LCCOM
6 DIRY
5 NRG
4 VDDY
3 CLY
2 CLY
1 DY
R-LCD
PANEL
G-LCD
PANEL

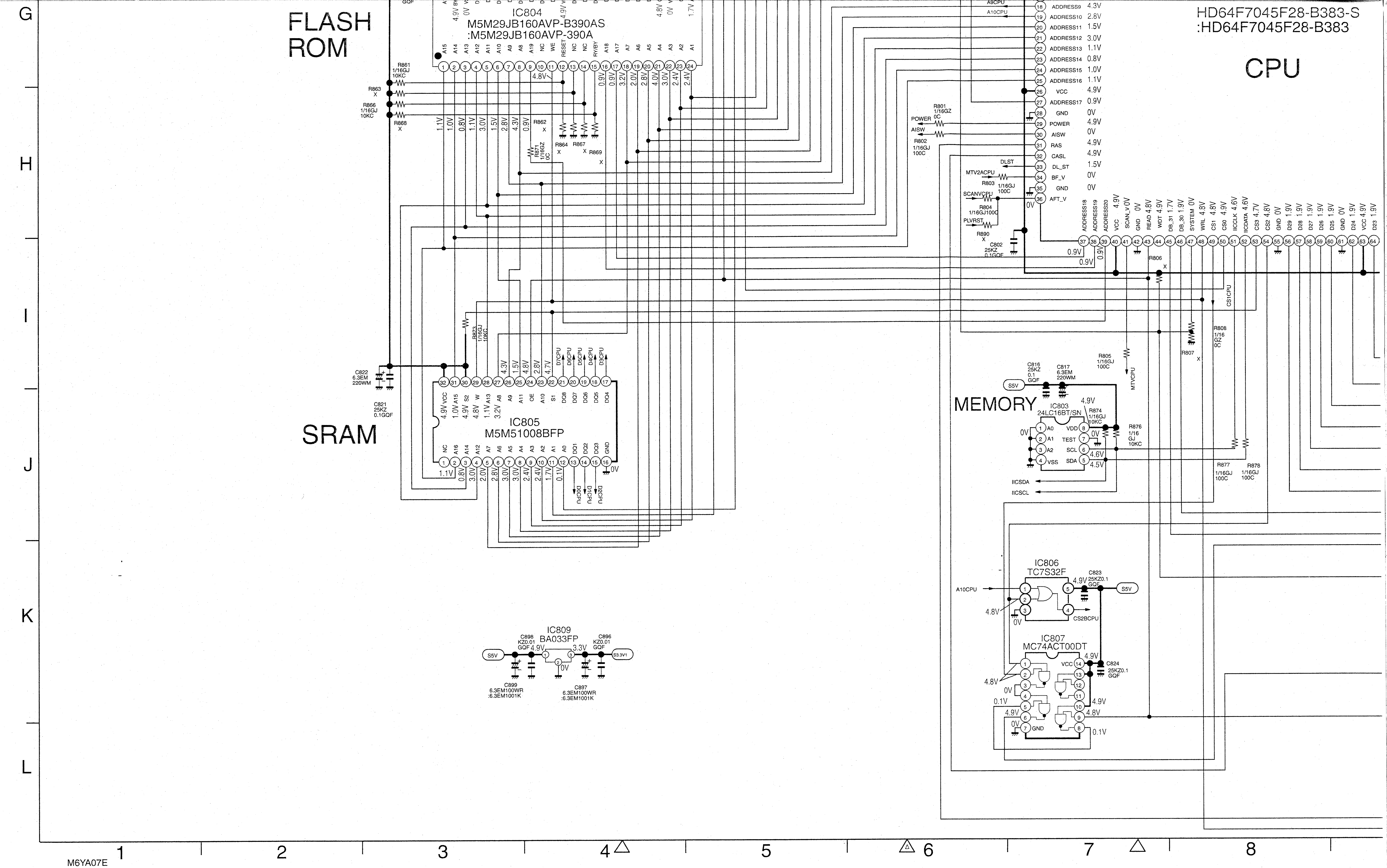

IC531
CXA2112R
IC561
CXA2112R
IC2541
LC4105V
IC2561
LT1206CS8-T2
IC1451
MC14053BF
G-LCD
PANEL
B-LCD
PANEL
15VC
15VD
15VE
15V
9VA
9V
5V
5V3
SH_OUT1
SH_OUT2
SH_OUT3
SH_OUT4
SH_OUT5
SH_OUT6
PGND
DGND
PVCC
CLK_IN
CLK_IN/
CLK_OUT/
CLKOUT
PRG
MCLK
MCLK/
INV_CNT
VDD
POS_CNT1
POS_CNT2
NEXT_OUT
NEXT_IN
F/R_CNT
GND
S/12_CNT
ENB
DIR_CNT
DLY_CNT
OFFSET
VIDEO_IN
INV_OUT
SH_IN
FRP
VCC
SID_OFST
SID_IN
SID_OUT
ISET
SIGCEN
VCOMOFS
VCOMOUT
BMCLK
BMCLKI
BHCLK1
BHCLK2
GHCLK1
STV
BHST
ENB2B
ENB1B
VCK
DWN
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
IN1
IN2
IN3
IN4
IN5
IN6
IN7
VSS
VSS1
NC
DY(B)
DX(B)
CLY(B)
CLX(B)
CLX(G)
DIRY
K25B
J11EA300G
DY
VSSY
NRS2
NRS1
LCCOM
VSSX
VSIG6
VSIG5
VSIG4
VSIG3
VSIG2
VSIG1
N.C.
VDDX
DX
CLX
DIRX
ENB2
ENB1
DIRY
NRG
VDDY
CLY
Q2595
2SC2412
KR
Q1451
2SC2412
XR
VR2503
VR2504
VR1451
VR561
RB531
RB532
RB561
RB562
RB2541
RB2542
TE531
TE561
TP503
TP2571
P513
L531
L561
L2541
L2561
13.7V
6.8V
7.0V
0.2V
0.1V
7.5V
15.4V
4.9V
5.2V
3.7V
0.3V
4.4V
5.2V
G
H
I
J
K
9
10
11
12
13
14
15
16

S7

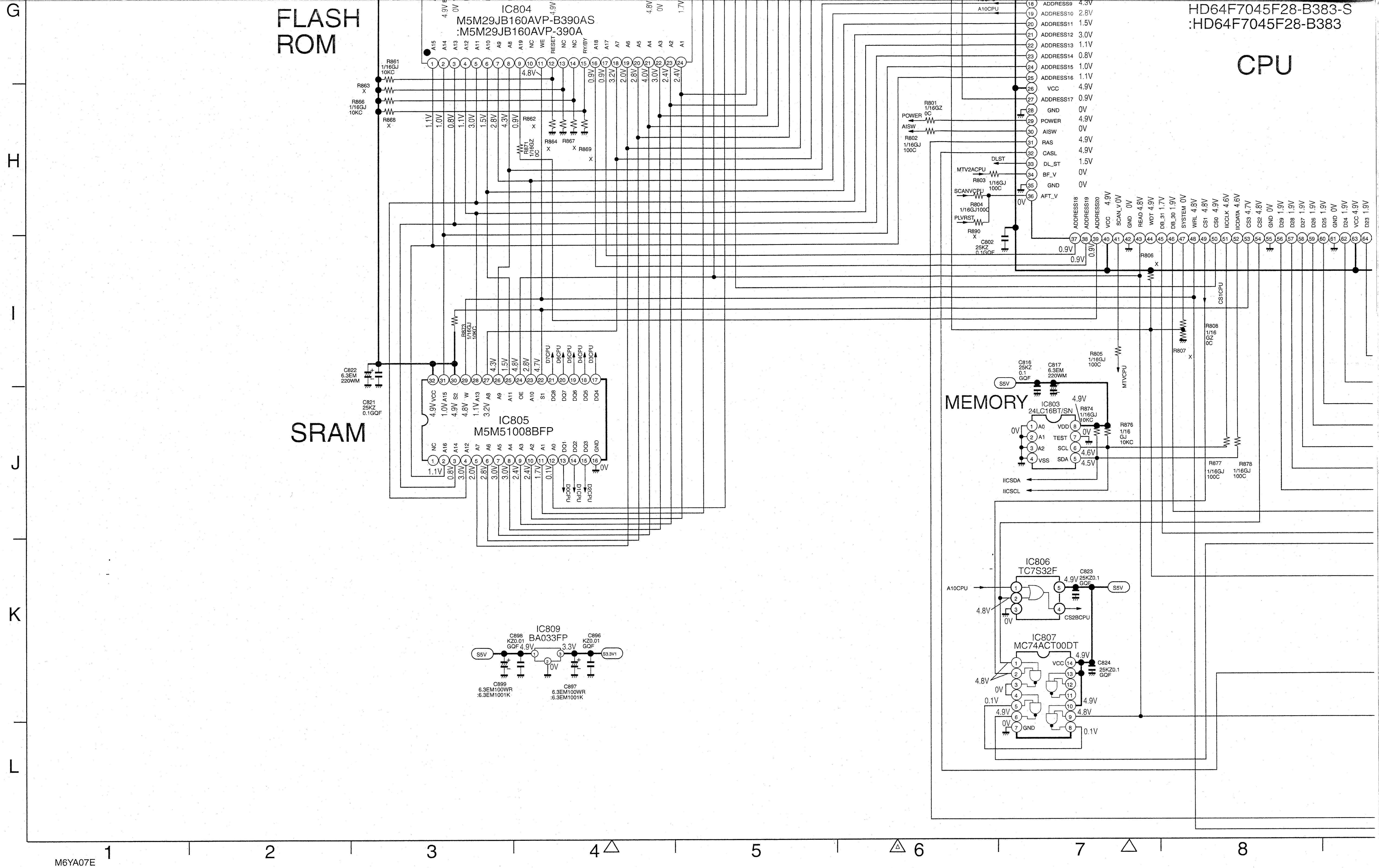
MODEL NO. PLC-SP10E/SP10B/SP10
SM515049

MAIN UNIT (4/4)

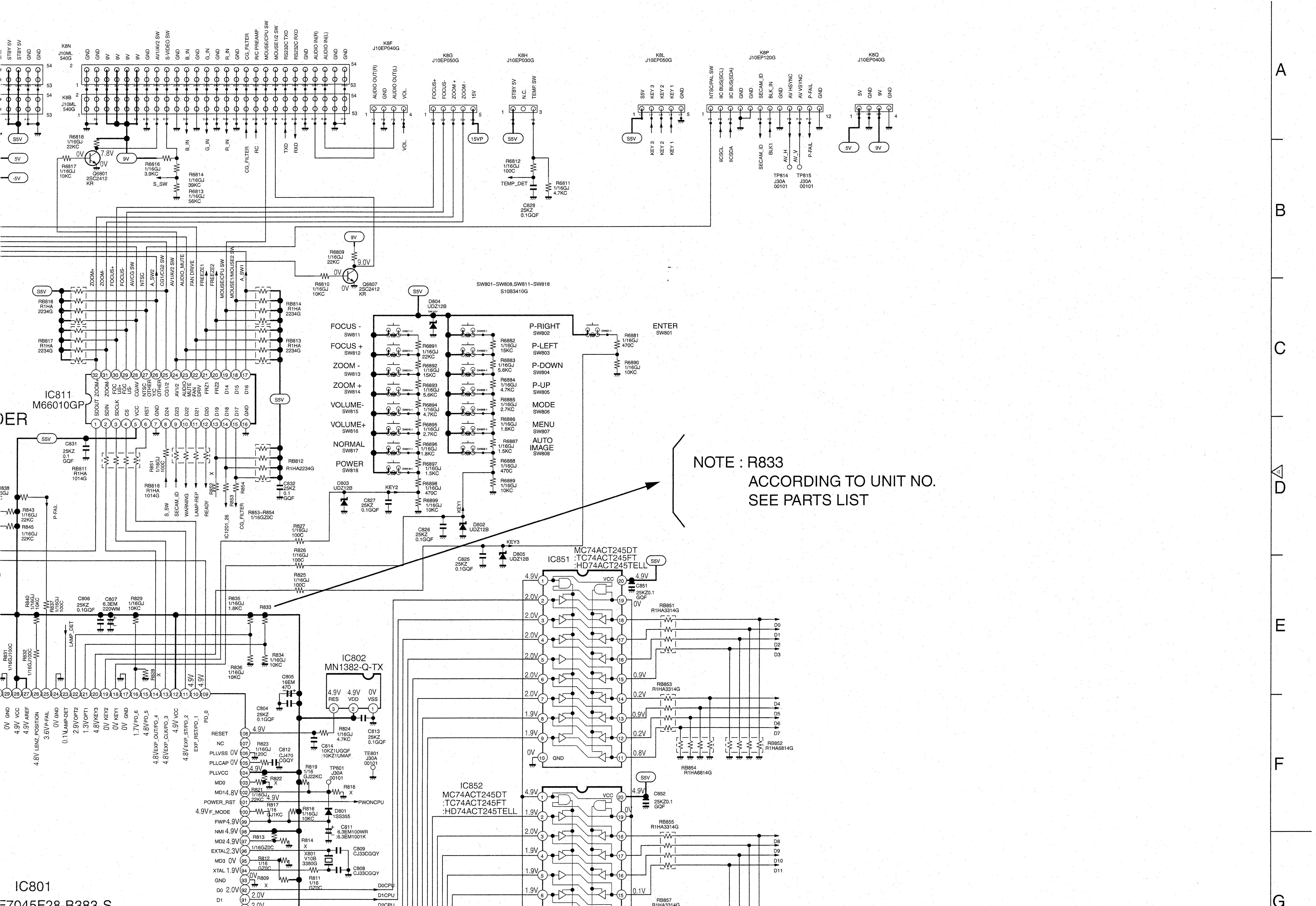

A
B
C
D
E
F
G
K8K J10EP080G
S5V POWER READY WARNING LAMP REPLACE S5V RC GNG
K8R J10EP030G
K8D J10EP080G
-5V GND 5VV 5VV 5VV 9V GND
K8E J10EP120G
GND 5V GND GND 15V 15V GND GND GND 5V(D) 5V(D) GND
K8C J10EP070G
LAMP SENS. LAMP SW FAN DRIVE GND POWER FAIL IC RESET STBY 5V
K8M J10ML 540G
K8A J10ML 540G
K8N J10ML 540G
K8B J10ML 540G
GND GND AV/CG SW CG1/CG2 SW GND GND AUDIO MUTE AUDIO SW1 AUDIO SW2 GND CG H-SYNC CG V-SYNC CG G-SYNC GND GND STBY -5V STBY -5V GND GND 5V 5V GND GND STBY 5V STBY 5V GND GND
S5V
-5V
5VV
9V
5V
15V
5VD
D6803 UDZ12B
D6804 UDZ12B
D6806 UDZ12B
D6807 UDZ12B
D6808 UDZ12B
D6802 UDZ6.2B
D6801 UDZ6.2B
C6802 X
C6801 10KZ1UGQF :10KZ1UMAF
R6829 1/16GJ 100C
R6828 1/16GZ0C
R800 1/16GZ 0C
R6820 1/16GJ 10KC
Q6817 2SC2412 KR
Q6816 2SC2412 KR
Q6814 2SC2412 KR
Q6813 2SA1037 KR
Q6812 2SC2412 KR
Q6804 2SC2412 KR
Q6806 2SC2412 KR
Q6808 2SC2412 KR
Q6802 2SC2412 KR
Q6803 2SC2412 KR
Q6801 2SC2412 KR
READY
LAMP-REP
WARNING
POWER
LAMP_SW
LAMP_DET
FANDRIVE
P-FAIL
A_SW2
A_SW1
TP812 J30A 00101
TP811 J30A 00101
TP813 J30A 00101
TE811 J30A 00101
CG_H
CG_V
G_SYNC
RB816 R1HA 2234G
RB817 R1HA 2234G
ZOOM+ ZOOM- FOCUS+ FOCUS-
IC832
TC74LCX244FT(EL)
:HD74LVC244AT
HD74LVC244 TC74LCX244
SDT1
CS1CPU
FRZ
FREEZE2
CS2B
SCK1
CS1
FREEZE1
FRZI
CS2BCPU
A/D (IC204,206,208 45P IC3204 3P)
BGA_A/I
C6803 6.3EM100WR :6.3EM1001K
R860 1/16GJ 10KC
I/O EXPANDER
IC811 M66010GP
SDOUT SDIN SDCLK CS
C831 25KZ 0.1 GQF
RB811 R1HA 1014G
TXD
RXD
IC833
TC74LCX244FT(EL)
:HD74LVC244AT
HD74LVC244 TC74LCX244
PWONCPU
A2
A3CPU
A4
A5CPU
A6
A7CPU
A8
PWON
A2CPU
A3
A4CPU
A5
A6CPU
A7
A8CPU
BGA_BUFF
IC831
MC74HCT244ADT
:HD74HCT244TV
ELL
RB831 R1HA2234G
RB832 R1HA2234G
MTV2A
SCLK
MTV
SDATA
SCANV
STB
KCPU
DAC1
MTV2ACPU
MTVCPU
SCANVCPU
S/H,DAC,PLL
C838 25KZ0.1 GQF
C837 25KZ0.1 GQF
C801 25KZ 0.1GQF
C806 25KZ 0.1GQF
C807 6.3EM 220WM
TEMP_DET
LAMP_DET
PLSTB1
SDTOUT
ASTB
VCO_ST
AIDATA
DL_SP
DAC_ST
AI_ST
ADDRESS0
ADDRESS1
ADDRESS2
ADDRESS3
ADDRESS4
VCC
ADDRESS5
GND
ADDRESS6
ADDRESS7
ADDRESS8
ADDRESS9
ADDRESS10
ADDRESS11
A2CPU
A3CPU
A4CPU
A5CPU
A6CPU
A7CPU
A8CPU
A9CPU
A10CPU
IC801
HD64F7045F28-B383-S
:HD64F7045F28-B383
FLASH
IC804
M5M29JB160AVP-B390AS
C819 6.3EM 220WM
C818 25KZ0.1 GQF
R872 1/16GJ 10KC
D15CPU D7CPU D14CPU D6CPU D13CPU D5CPU D12CPU D4CPU D11CPU D3CPU D10CPU D2CPU D9CPU D1CPU D8CPU D0CPU
A16 BYTE VSS D15 D7 D14 D6 D13 D5 D12 D4 VCC D11 D3 D10 D2 D9 D1 D8 D0 OE VSS CE A0


FLASH ROM
IC804
M5M29JB160AVP-B390AS
:M5M29JB160AVP-390A
SRAM
IC805
M5M51008BFP
MEMORY
IC803
24LC16BT/SN
CPU
HD64F7045F28-B383-S
:HD64F7045F28-B383
IC806
TC7S32F
IC807
MC74ACT00DT
IC809
BA033FP
S5V
S3.3V1
A10CPU
CS2BCPU
IICSDA
IICSCL
MTVCPU
POWER
AISW
DLST
MTV2ACPU
SCANVCPU
PLVRST
ADDRESS9
ADDRESS10
ADDRESS11
ADDRESS12
ADDRESS13
ADDRESS14
ADDRESS15
ADDRESS16
VCC
ADDRESS17
GND
RAS
CASL
DL_ST
BF_V
AFT_V
D0CPU
D1CPU
D2CPU
D3CPU
D4CPU
D5CPU
D6CPU
D7CPU
C816
C817
C821
C822
C823
C824
C802
C896
C897
C898
C899
R801
R802
R803
R804
R805
R806
R807
R808
R861
R862
R863
R864
R866
R867
R868
R869
R871
R872
R874
R876
R877
R878
R890
G
H
I
J
K
L
1
2
3
4
5
6
7
8

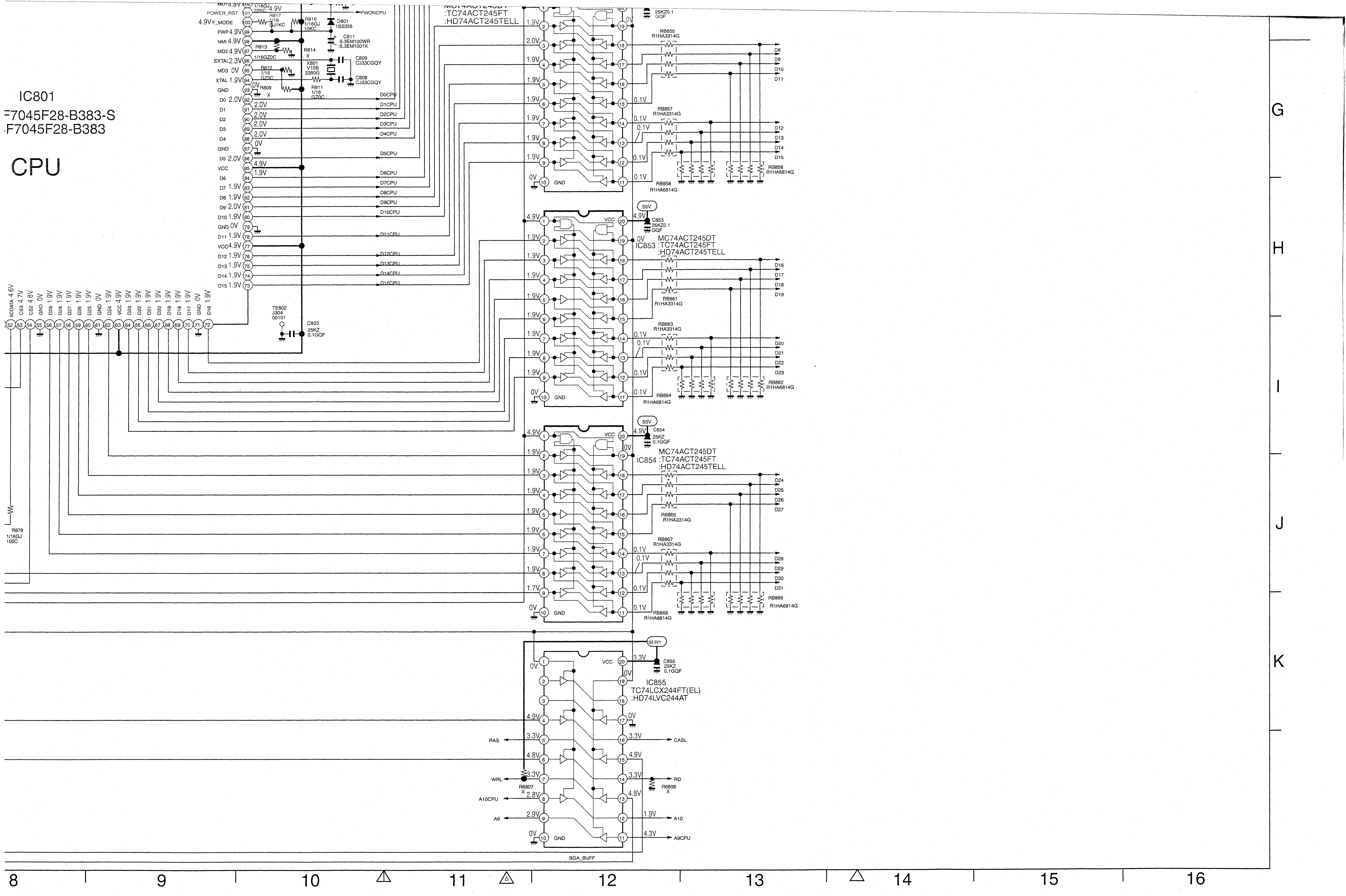
M6YA07E


FLASH ROM
IC804
M5M29JB160AVP-B390AS
:M5M29JB160AVP-390A
SRAM
IC805
M5M51008BFP
HD64F7045F28-B383-S
:HD64F7045F28-B383
CPU
MEMORY
IC803
24LC16BT/SN
IC806
TC7S32F
IC807
MC74ACT00DT
IC809
BA033FP
S5V
S3.3V1
A10CPU
CS2BCPU
IICSDA
IICSCL
MTVCPU
CS1CPU
POWER
AISW
DLST
MTV2ACPU
SCANVCPU
PLVRST
ADDRESS9
ADDRESS10
ADDRESS11
ADDRESS12
ADDRESS13
ADDRESS14
ADDRESS15
ADDRESS16
VCC
ADDRESS17
GND
RAS
CASL
DL_ST
BF_V
AFT_V
G
H
I
J
K
L
1
2
3
4
5
6
7
8

M6YA07E


K8N J10ML 540G
K8B J10ML 540G
K8F J10EP040G
K8G J10EP050G
K8H J10EP030G
K8L J10EP050G
K8P J10EP120G
K8Q J10EP040G
AUDIO OUT(R)
AUDIO OUT(L)
VOL.
FOCUS+
FOCUS-
ZOOM +
ZOOM -
15V
STBY 5V
N.C.
TEMP SW
S5V
KEY 3
KEY 2
KEY 1
GND
NTSC/PAL SW
IIC BUS(SCL)
IIC BUS(SDA)
SECAM_ID
BLK_IN
AV HSYNC
AV VSYNC
P-FAIL
5V
9V
Q6801 2SC2412 KR
Q6807 2SC2412 KR
TEMP_DET
TP814 J30A 00101
TP815 J30A 00101
SW801~SW808,SW811~SW818 S10B3410G
D804 UDZ12B
FOCUS - SW811
FOCUS + SW812
ZOOM - SW813
ZOOM + SW814
VOLUME- SW815
VOLUME+ SW816
NORMAL SW817
POWER SW818
P-RIGHT SW802
P-LEFT SW803
P-DOWN SW804
P-UP SW805
MODE SW806
MENU SW807
AUTO IMAGE SW808
ENTER SW801
IC811 M66010GP
RB814 R1HA 2234G
RB813 R1HA 2234G
RB816 R1HA 2234G
RB817 R1HA 2234G
RB812 R1HA2234G
RB811 R1HA 1014G
RB818 R1HA 1014G
D803 UDZ12B
D802 UDZ12B
D805 UDZ12B
IC851 MC74ACT245DT :TC74ACT245FT :HD74ACT245TELL
IC852 MC74ACT245DT :TC74ACT245FT :HD74ACT245TELL
IC802 MN1382-Q-TX
IC801
RB851 R1HA3314G
RB853 R1HA3314G
RB852 R1HA6814G
RB854 R1HA6814G
RB855 R1HA3314G
RB857 R1HA3314G
X801 V10B 3380G
D801 1SS355
TE801 J30A 00101
TP801 J30A 00101
RESET
PLLVSS
PLLCAP
PLLVCC
POWER_RST
F_MODE
PWONCPU
D0CPU
D1CPU
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
A
B
C
D
E
F
G

NOTE : R833
ACCORDING TO UNIT NO.
SEE PARTS LIST



IC801
F7045F28-B383-S
F7045F28-B383
CPU
POWER_RST
F_MODE
FWP
NMI
MD2
EXTAL
MD3
XTAL
GND
D0
D1
D2
D3
D4
D5
VCC
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
PWONCPU
D801
1SS355
R816
1/16GJ
10KC
R817
22KC
C811
6.3EM100WR
:6.3EM1001K
R813
R814
X801
V10B
3380G
C809
CJ33CGQY
C808
CJ33CGQY
R812
R809
R811
1/16
GZ0C
D0CPU
D1CPU
D2CPU
D3CPU
D4CPU
D5CPU
D6CPU
D7CPU
D8CPU
D9CPU
D10CPU
D11CPU
D12CPU
D13CPU
D14CPU
D15CPU
TE802
J30A
00101
C803
25KZ
0.1GQF
ICDATA
CS3
CS2
D29
D28
D27
D26
D25
D24
D23
D22
D21
D20
D19
D18
D17
D16
R878
1/16GJ
100C
:TC74ACT245FT
:HD74ACT245TELL
25KZ0.1
GQF
RB855
R1HA3314G
RB857
R1HA3314G
RB856
R1HA6814G
RB858
R1HA6814G
S5V
C853
25KZ0.1
GQF
IC853
MC74ACT245DT
:TC74ACT245FT
:HD74ACT245TELL
RB861
R1HA3314G
RB863
R1HA3314G
RB862
R1HA6814G
RB864
R1HA6814G
C854
25KZ
0.1GQF
IC854
MC74ACT245DT
:TC74ACT245FT
:HD74ACT245TELL
RB865
R1HA3314G
RB867
R1HA3314G
RB866
R1HA6814G
RB868
R1HA6814G
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
S3.3V1
C855
25KZ
0.1GQF
IC855
TC74LCX244FT(EL)
:HD74LVC244AT
RAS
CASL
WRL
RD
R6807
R6808
A10CPU
A9
A10
A9CPU
BGA_BUFF
GND
VCC
G
H
I
J
K
8
9
10
11
12
13
14
15
16

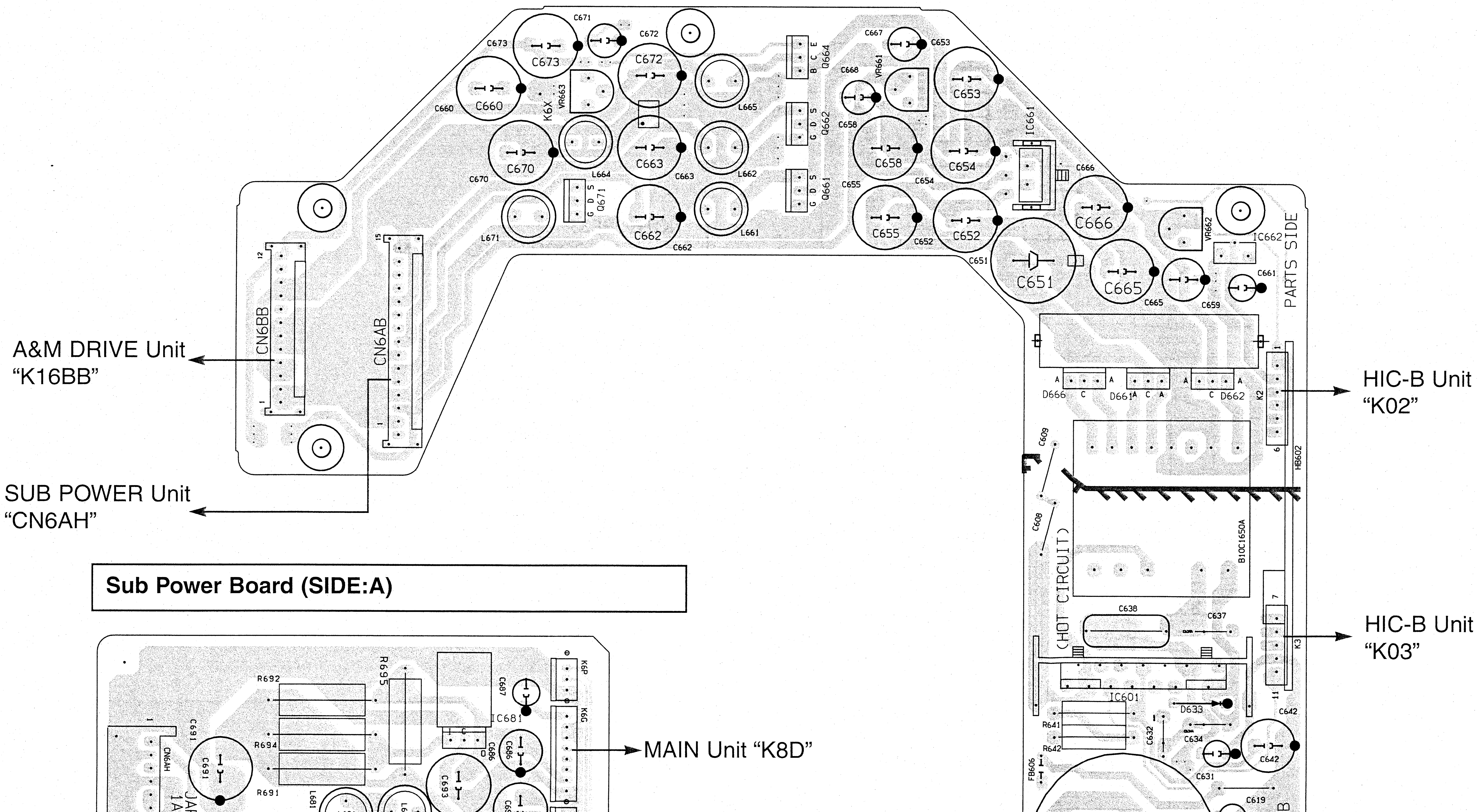
P1 ■ Printed Wiring Board Diagrams

⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

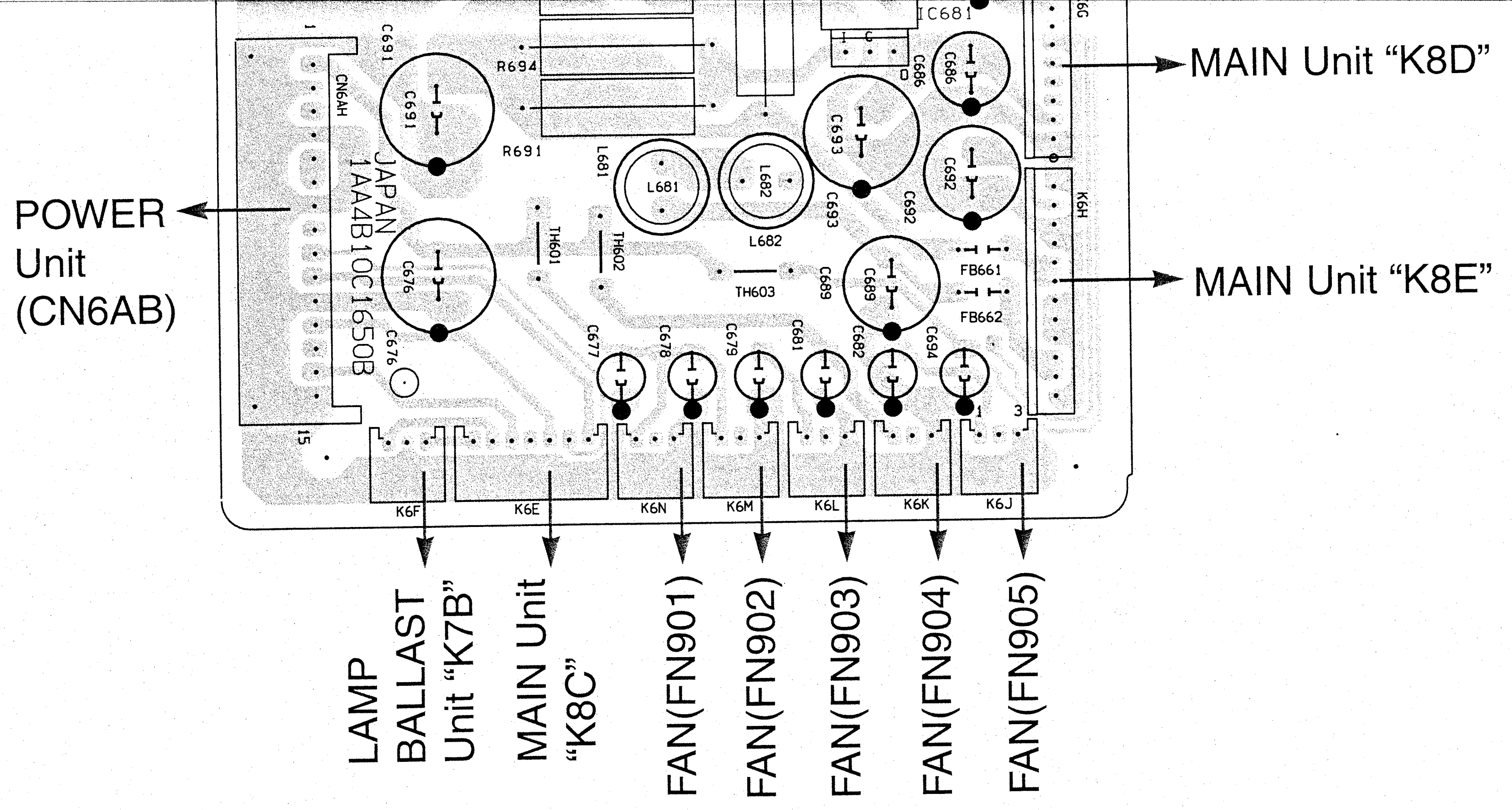
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

Power Board (SIDE:A)

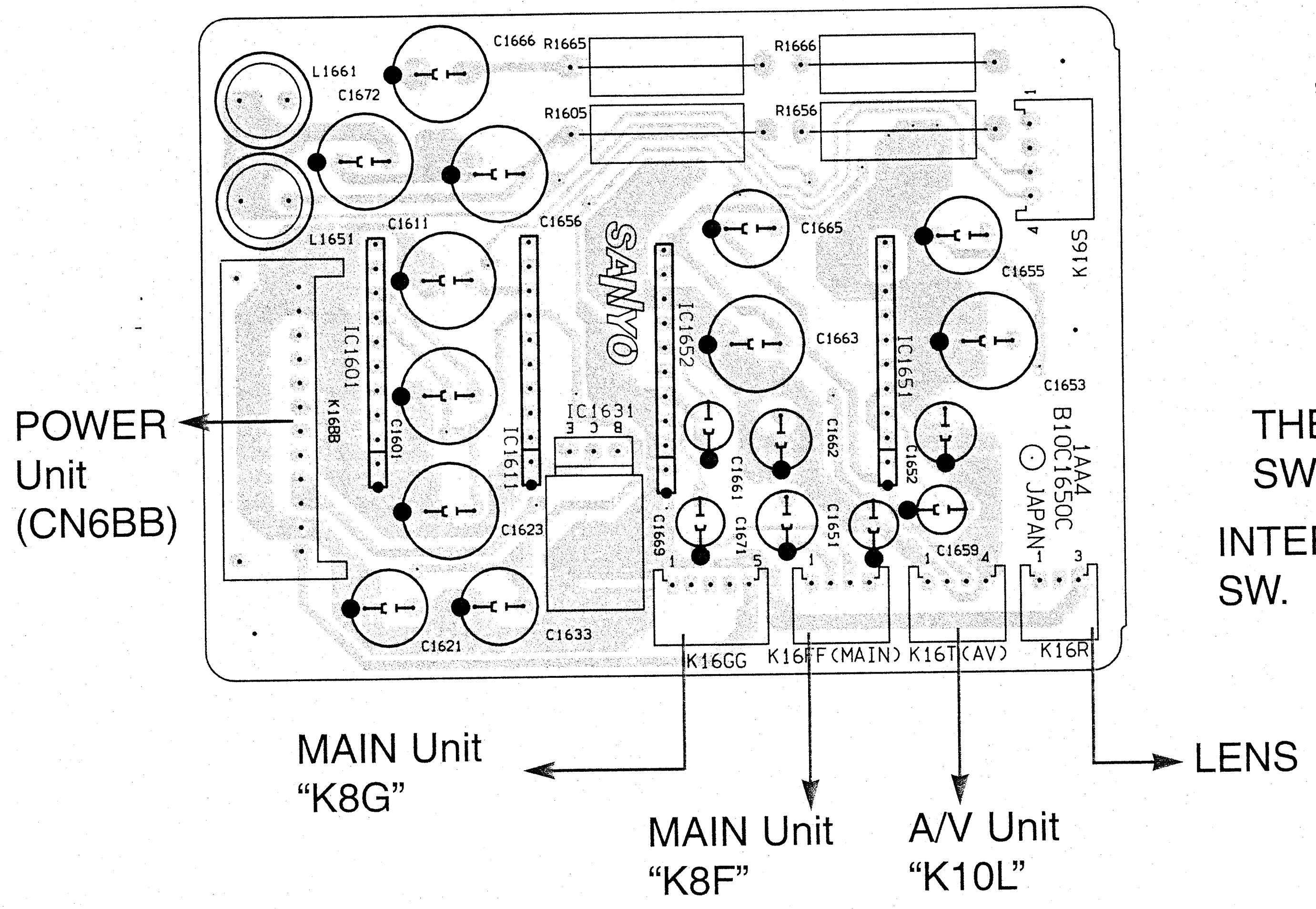

C671
C673
C672
C660
K6X
VR663
C670
L664
Q671
G D S
C663
C662
L665
L662
L661
L671
CN6BB
CN6AB
12
15
1
B C E
Q664
G D S
Q662
Q661
C667
C653
C668
VR661
C658
C654
C655
C652
C651
IC651
C666
C665
C659
C661
IC662
VR662
PARTS SIDE
D666
D661
D662
A C
K2
1
9
HB602
C609
C608
(HOT CIRCUIT)
B10C1650A
C638
C637
7
11
K3
IC601
D633
R641
R642
C632
C634
C631
C642
C619
FB606
A&M DRIVE Unit
"K16BB"
SUB POWER Unit
"CN6AH"
HIC-B Unit
"K02"
HIC-B Unit
"K03"

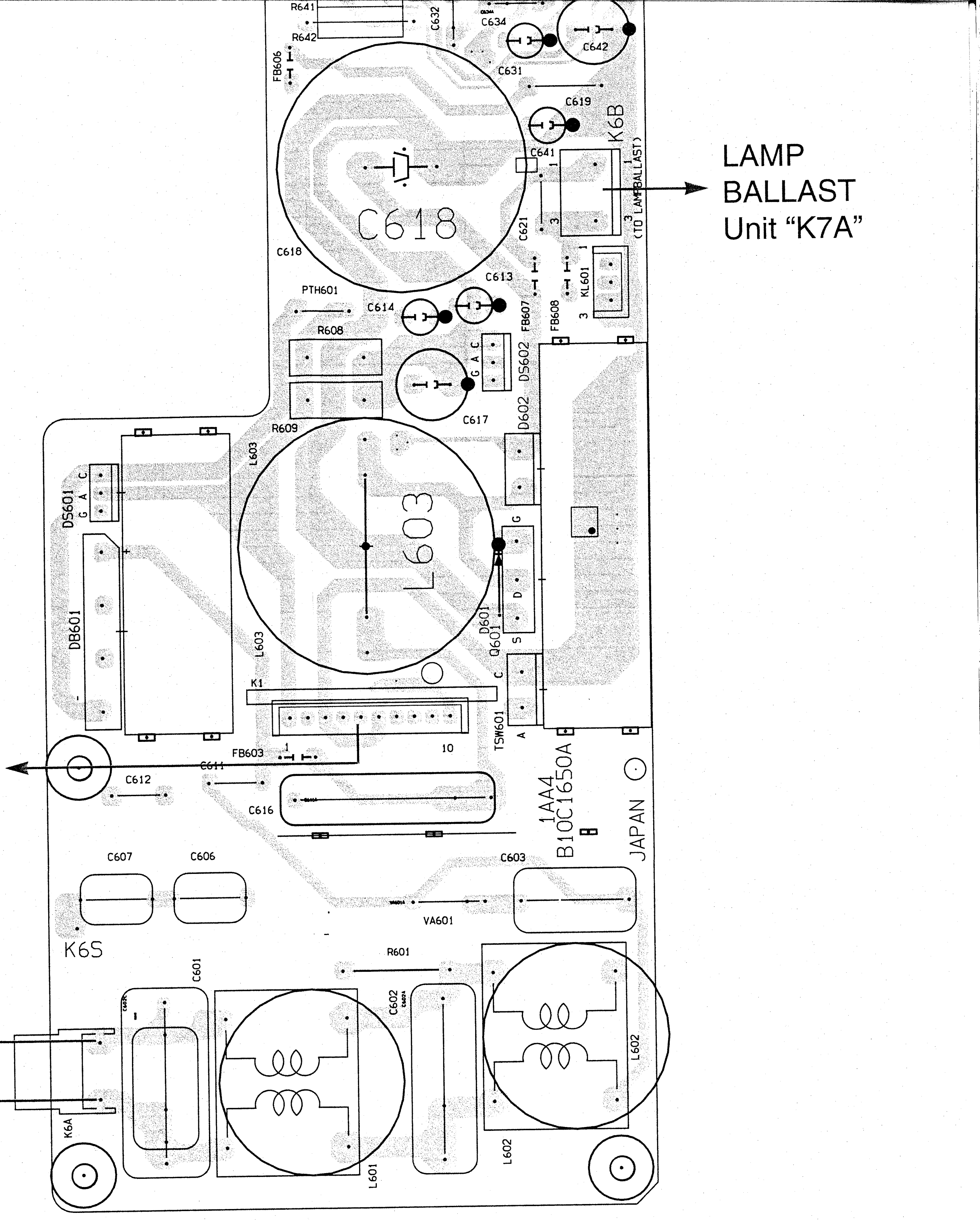
Sub Power Board (SIDE:A)

R692
R695
R694
R691
C691
CN6AH
L681
IC681
C687
C686
C693
K6P
K6G
MAIN Unit "K8D"


MAIN Unit "K8D"
POWER Unit (CN6AB)
MAIN Unit "K8E"
JAPAN 1AA4B10C1650B
CN6AH
K6H
IC681
C691
R694
R691
C676
L681
L682
TH601
TH602
TH603
C693
C692
C686
C689
FB661
FB662
C677
C678
C679
C681
C682
C694
K6F
K6E
K6N
K6M
K6L
K6K
K6J
LAMP BALLAST Unit "K7B"
MAIN Unit "K8C"
FAN(FN901)
FAN(FN902)
FAN(FN903)
FAN(FN904)
FAN(FN905)

A&M Drive Board (SIDE:A)


POWER Unit (CN6BB)
L1661
C1672
L1651
C1666
R1665
R1666
R1605
R1656
C1611
C1656
C1665
C1655
C1663
C1653
IC1601
K16BB
C1601
IC1611
IC1631
B C E
IC1652
IC1651
C1662
C1661
C1652
C1623
C1669
C1671
C1651
C1659
C1621
C1633
SANYO
1AA4 B10C1650C JAPAN
K16S
K16GG
K16FF(MAIN)
K16T(AV)
K16R
MAIN Unit "K8G"
MAIN Unit "K8F"
A/V Unit "K10L"
LENS


LAMP BALLAST Unit "K7A"
HIC-A Unit "K01"
THERMAL SWITCH
INTERLOCK SW.
R641
R642
C632
C634
C642
C631
C619
K6B
C641
(TO LAMP BALLAST)
FB606
C618
C621
PTH601
C613
C614
KL601
FB607
FB608
R608
C617
DS602
D602
R609
L603
DS601
DB601
Q601
D601
K1
TSW601
FB603
C611
C612
C616
C607
C606
C603
VA601
1AA4 B10C1650A JAPAN
K6S
R601
C601
C602
L601
L602
K6A

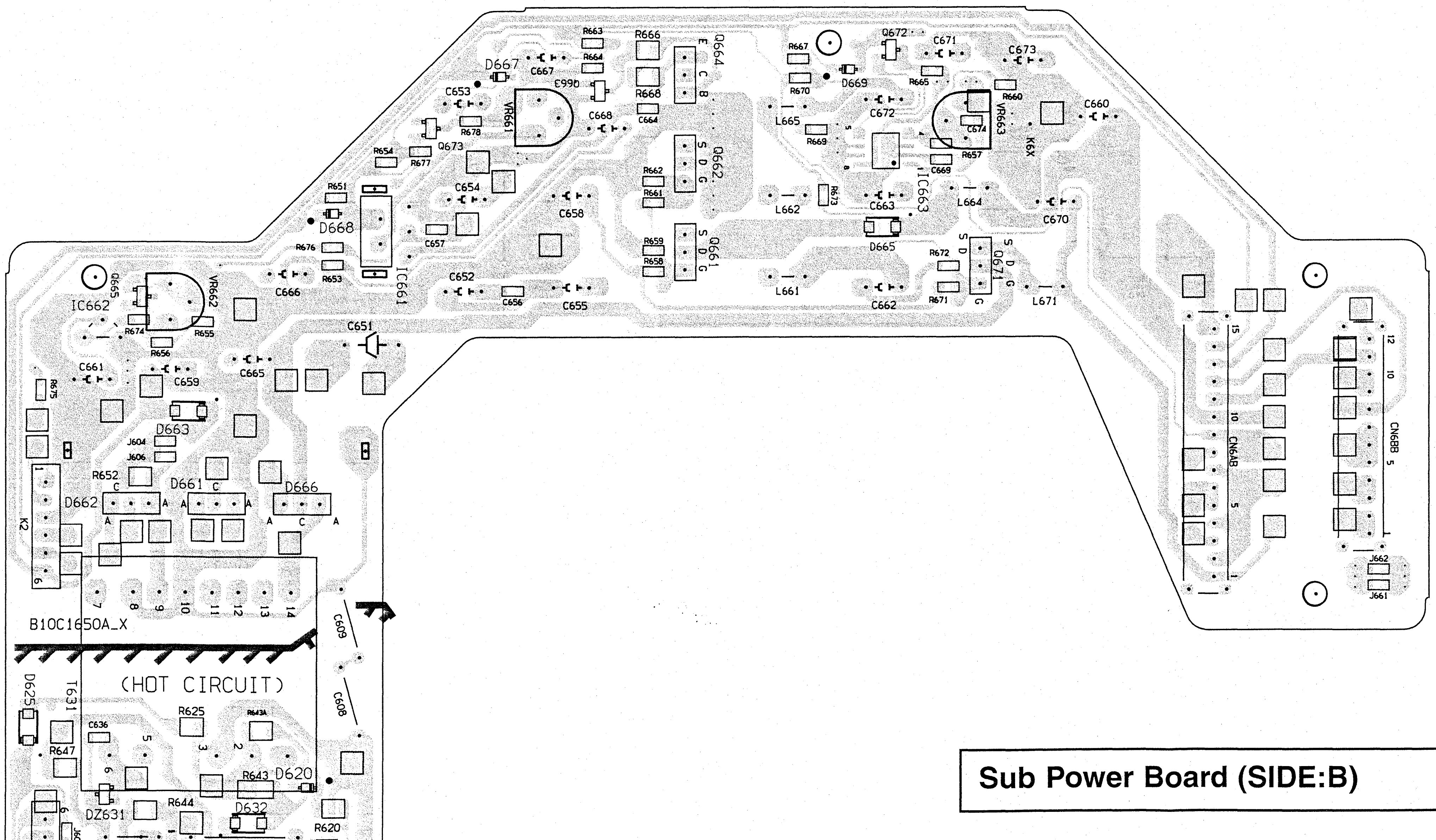
condary

of volt-

Power Board (SIDE:B)

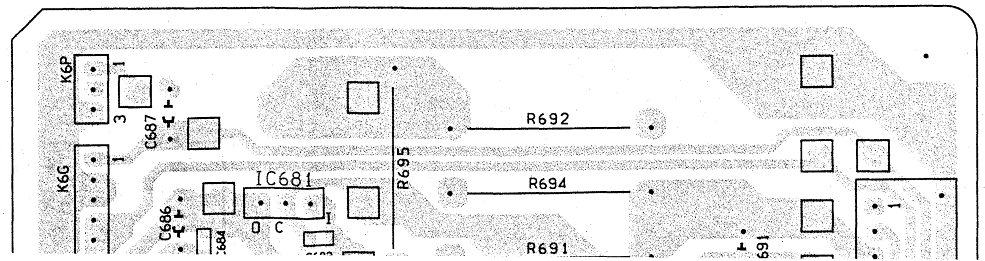
IC-B Unit
02”

IC-B Unit
03”



R663
R664
R666
Q664
D667
C667
C990
C653
VR661
R678
Q673
C668
R668
C664
R654
R677
R651
D668
R676
R653
IC661
C654
C657
C658
R662
R661
Q662
R659
R658
Q661
C652
C656
C655
C666
C651
C665
IC662
Q665
VR662
R674
R655
R656
C661
C659
R675
D663
J604
J606
R652
D662
D661
D666
K2
B10C1650A_X
C609
C608
(HOT CIRCUIT)
D625
T631
R625
R643A
C636
R647
R643
D620
DZ631
R644
D632
R620
J603
C637
C633
C638
C643
K3
R646
IC601
C639
R641
D633
C632
C634
C631
C642
R640
R642
R667
Q672
C671
C673
R670
D669
R665
R660
C660
C672
L665
R669
VR663
C674
K6X
R657
C669
IC663
R673
L662
C663
L664
C670
D665
R672
Q671
L661
C662
R671
L671
CN6AB
CN6BB
J662
J661

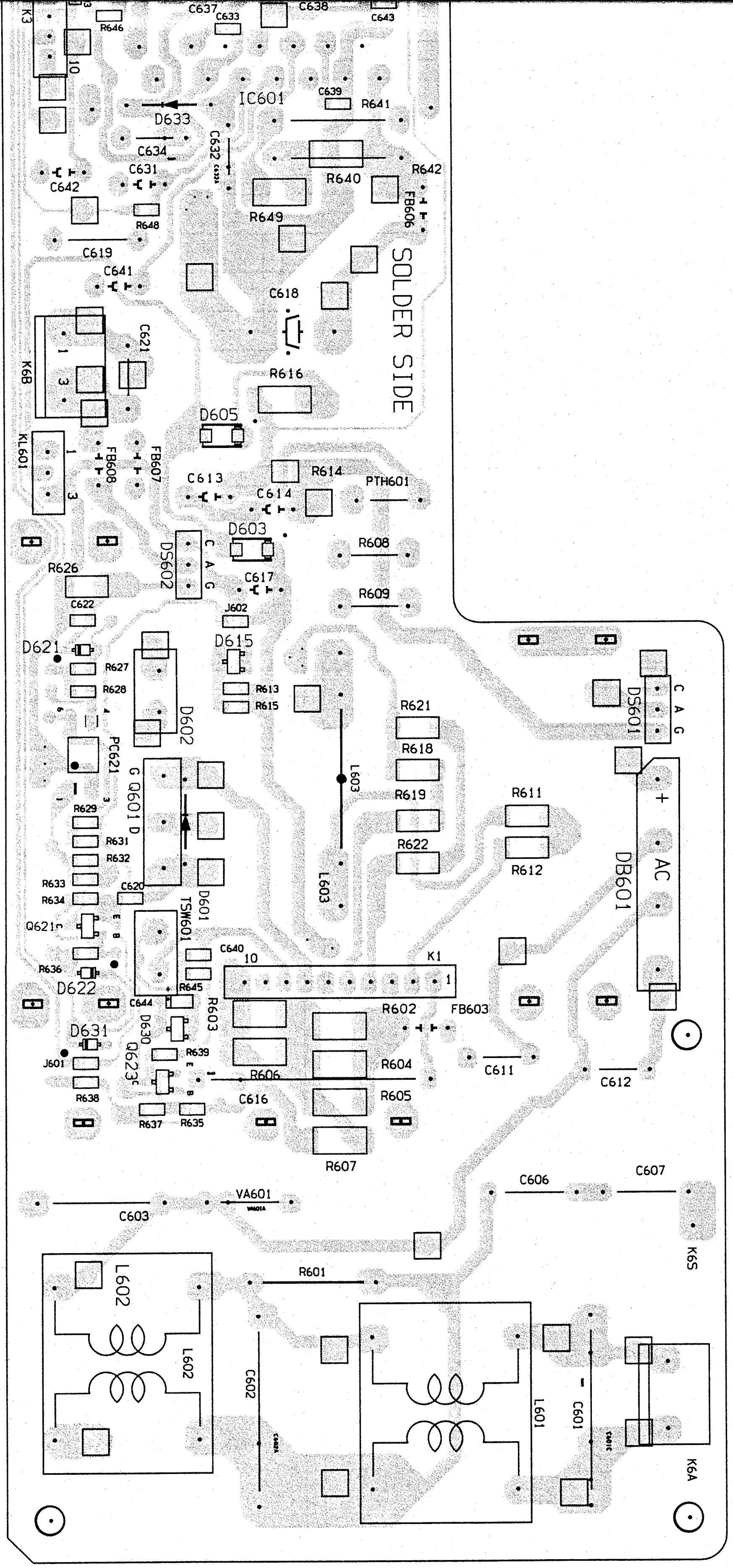
Sub Power Board (SIDE:B)

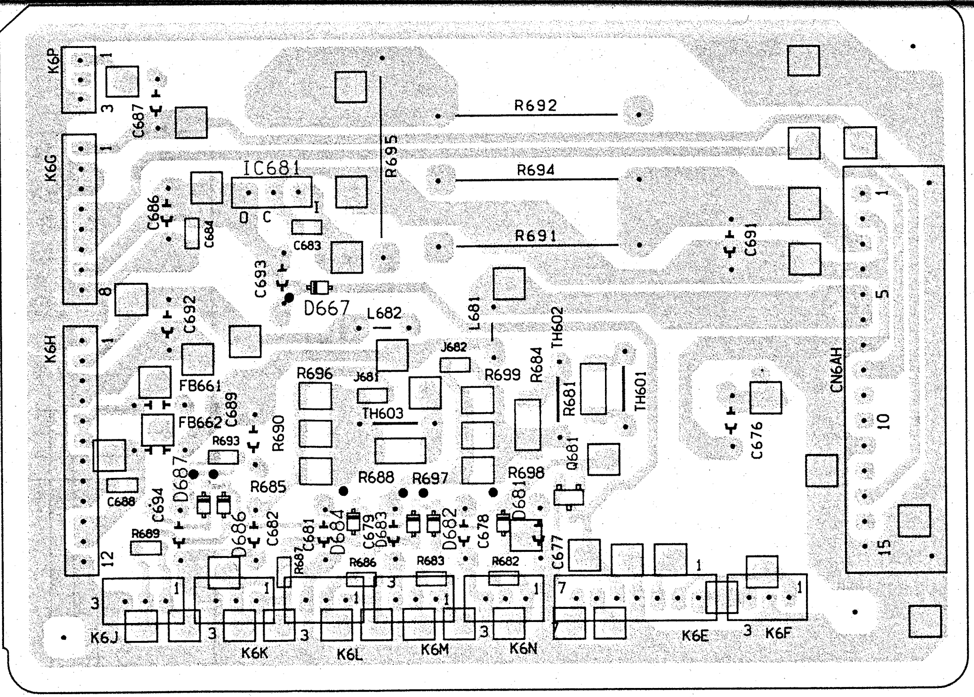


K6P
C687
R692
R694
R695
IC681
K6G
C686
R691

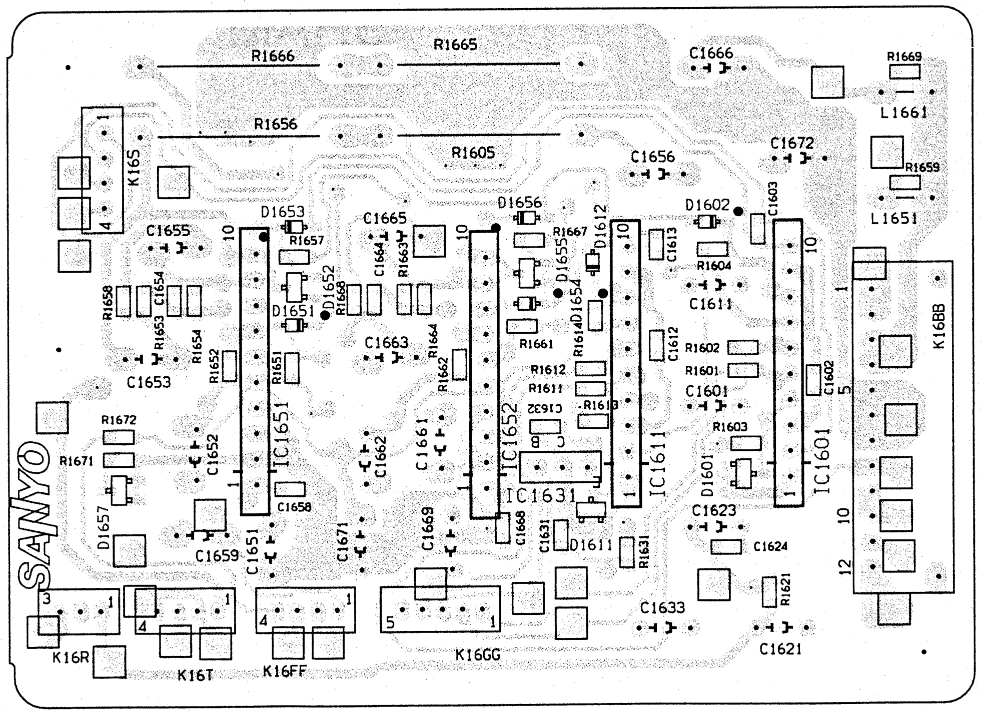
03”

AMP
ALLAST
nit “K7A”


SOLDER SIDE
IC601
D633
R640
R649
C618
R616
D605
K6B
KL601
R614
PTH601
C613
C614
D603
DS602
R608
R609
R626
D621
D602
D615
PC621
Q601
R621
R618
R619
R622
R611
R612
L603
DS601
DB601
AC
D601
TSW601
K1
D622
D631
Q623
R602
R603
R604
R605
R606
R607
FB603
C611
C612
C616
VA601
C603
C606
C607
K6S
L602
R601
C602
L601
C601
K6A


K6P
K6G
K6H
IC681
R692
R694
R691
R695
D667
L682
L681
TH602
TH601
R681
Q681
CN6AH
C676
C691
R696
R699
R684
TH603
R690
R685
R688
R697
R698
K6J
K6K
K6L
K6M
K6N
K6E
K6F

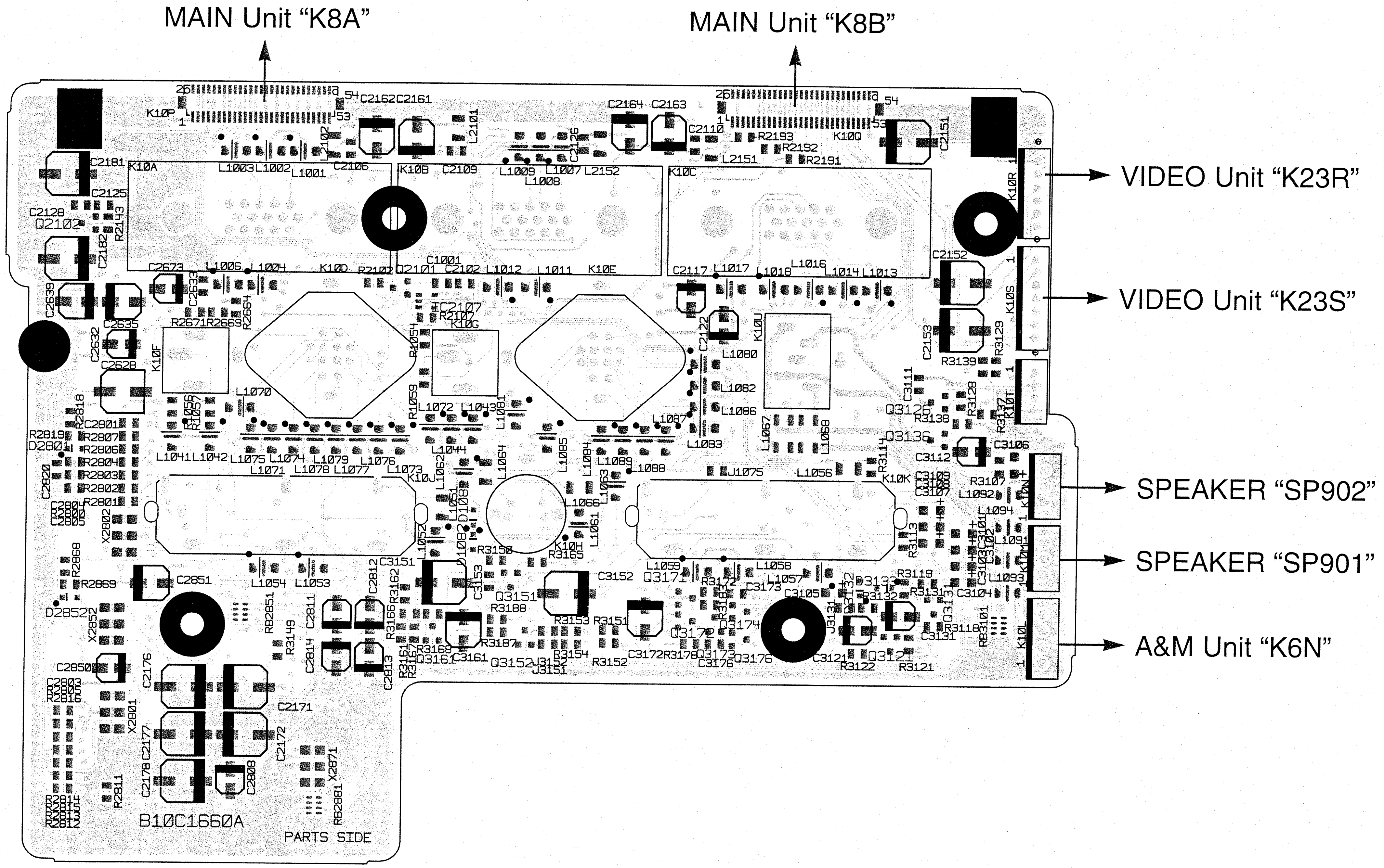
A&M Drive Board (SIDE:B)


R1666
R1665
C1666
R1669
L1661
R1656
R1605
C1656
C1672
L1651
K165
K16BB
D1653
D1656
D1602
C1655
C1665
C1653
C1663
C1611
C1601
IC1651
IC1652
IC1631
IC1611
IC1601
SANYO
D1657
D1601
D1611
C1659
C1623
C1633
C1621
K16R
K16T
K16FF
K16GG

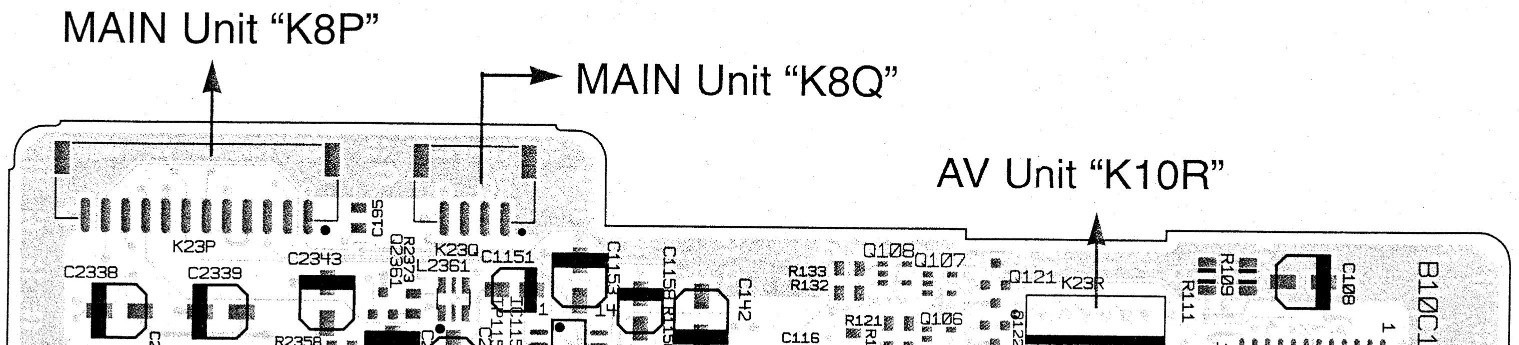
MODEL NO. PLC-SP10E/SP10B/SP10

SM515049

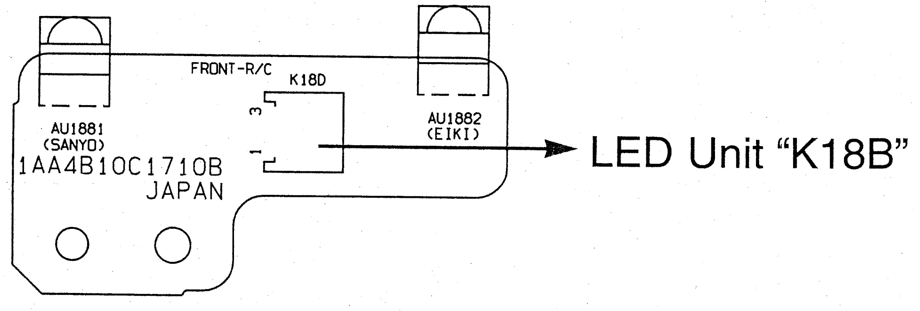
A/V Board (SIDE:A)

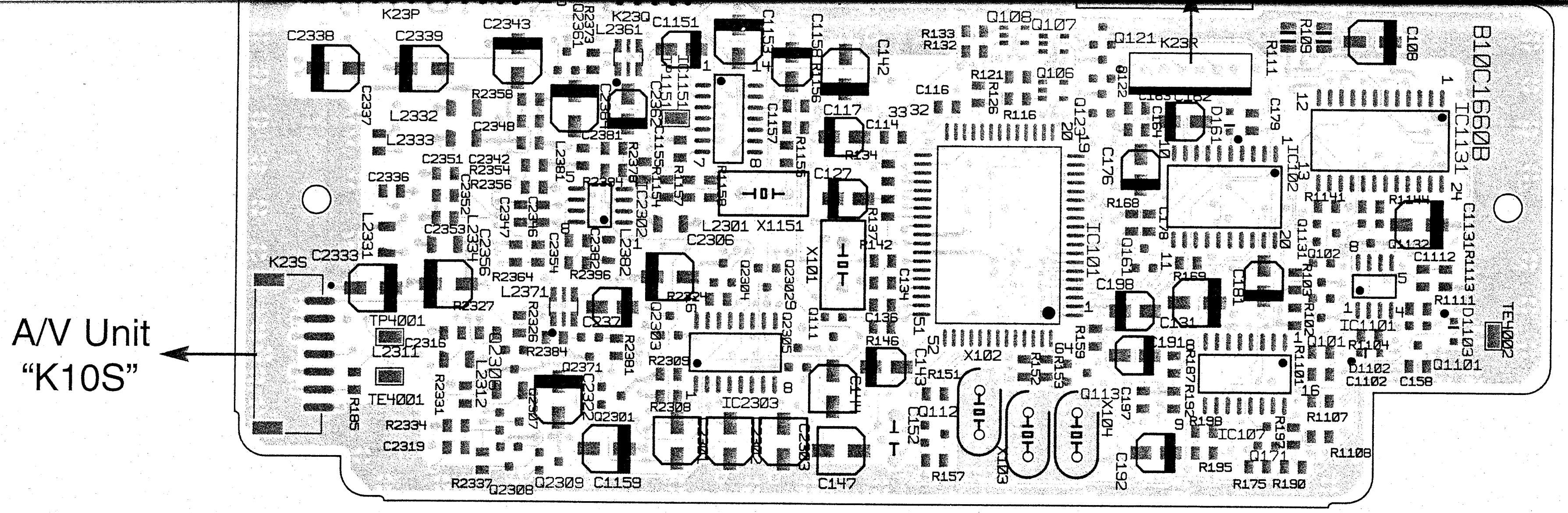

MAIN Unit “K8A”
MAIN Unit “K8B”
VIDEO Unit “K23R”
VIDEO Unit “K23S”
SPEAKER “SP902”
SPEAKER “SP901”
A&M Unit “K6N”
K10P
K10Q
K10A
K10B
K10C
K10D
K10E
K10F
K10G
K10H
K10J
K10K
K10L
K10M
K10N
K10R
K10S
K10T
K10U
B10C1660A
PARTS SIDE

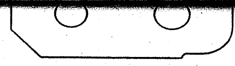
Video Board (SIDE:A)


MAIN Unit “K8P”
MAIN Unit “K8Q”
AV Unit “K10R”
K23P
K23Q
K23R

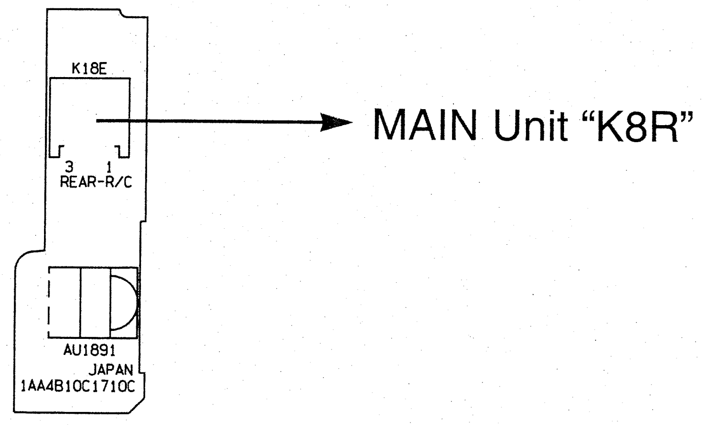
RC1 Board (SIDE:A)


FRONT-R/C
K18D
AU1881
(SANYO)
AU1882
(EIKI)
1AA4B10C1710B
JAPAN
LED Unit “K18B”

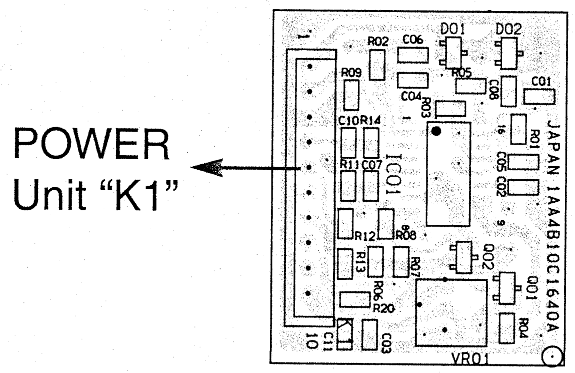

A/V Unit
“K10S”
K23S
K23R
K23P
B10C1660B
IC101
IC131
IC2303
X101
X102
X104
TE4001
TP4001
TE402



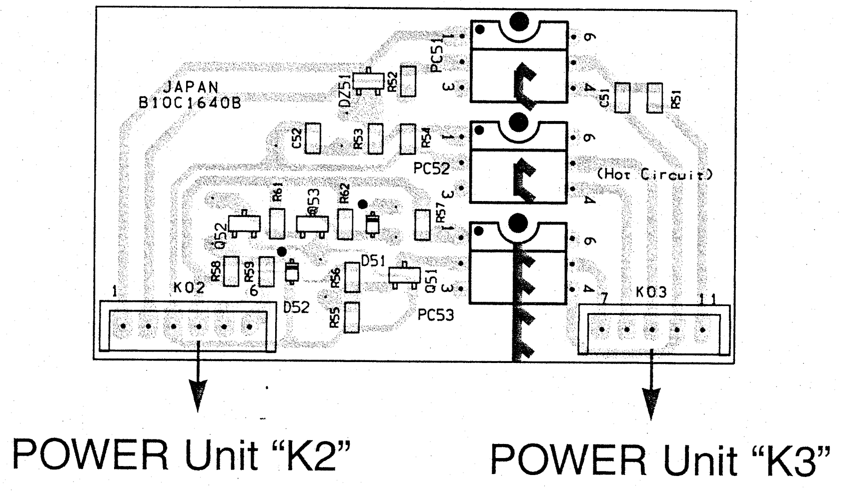
RC2 Board (SIDE:A)


K18E
MAIN Unit “K8R”
3
1
REAR-R/C
AU1891
JAPAN
1AA4B10C1710C

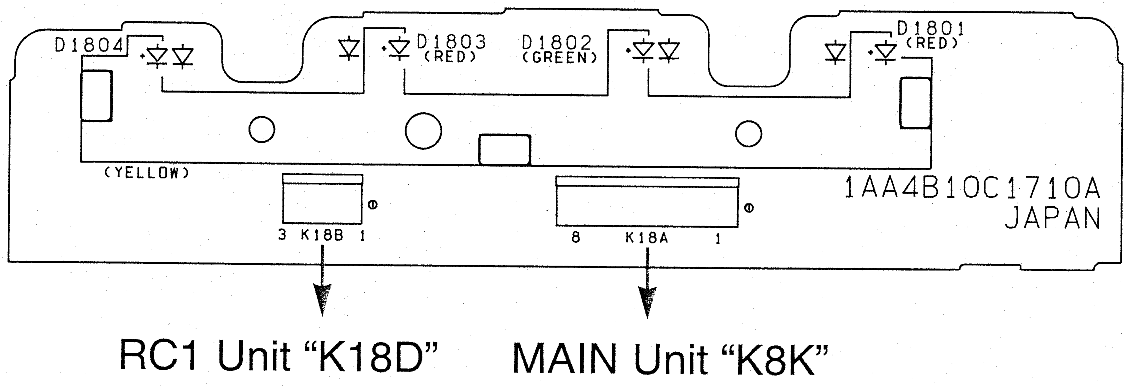
HIC-A Board (SIDE:A)


POWER
Unit “K1”
1
10
IC01
VR01
D01
D02
Q01
Q02
JAPAN 1AA4B10C1640A

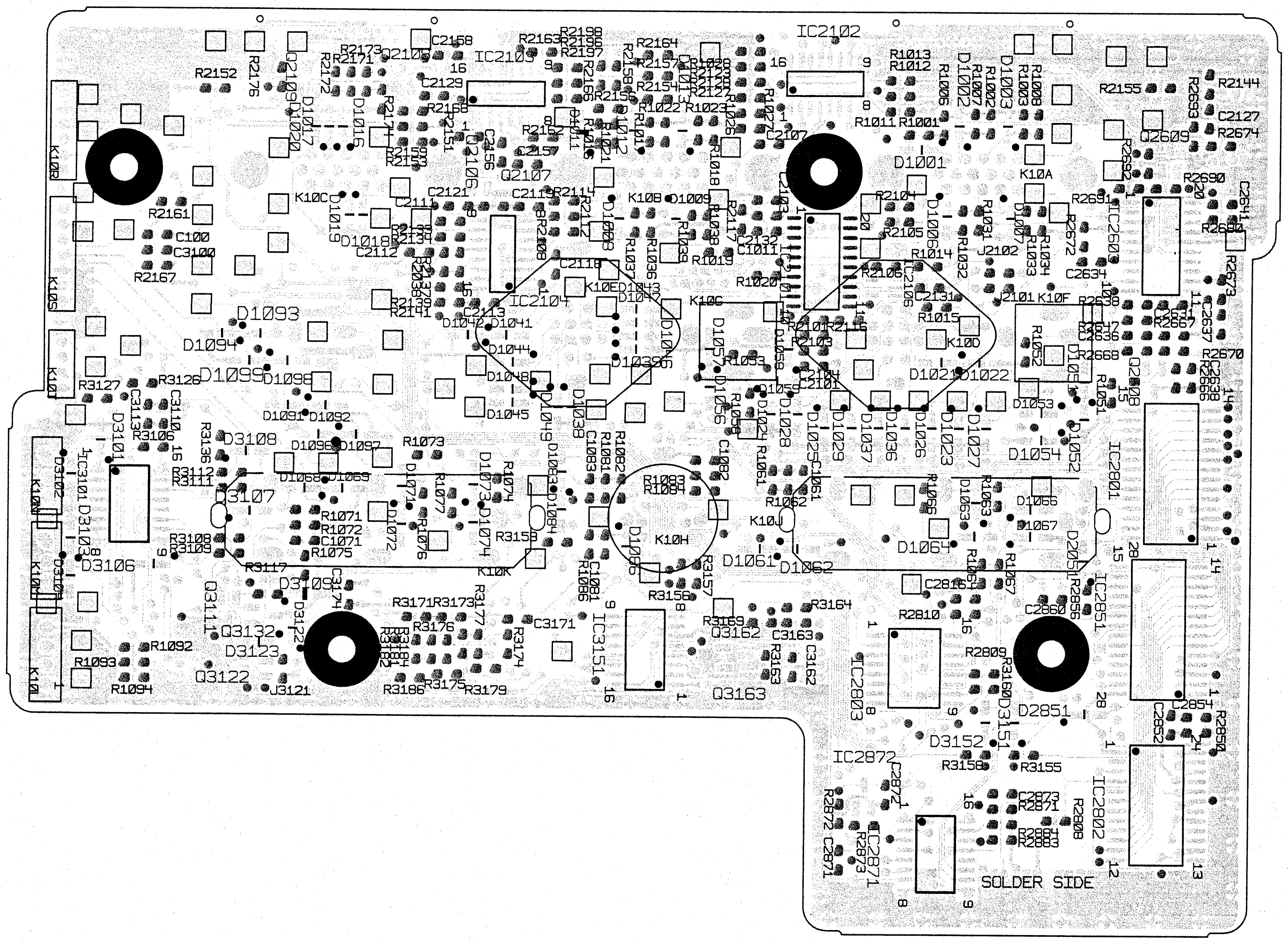
HIC-B Board (SIDE:A)


JAPAN
B10C1640B
PC51
PC52
PC53
(Hot Circuit)
K02
K03
1
7
11
D51
D52
POWER Unit “K2”
POWER Unit “K3”

LED Board (SIDE:A)

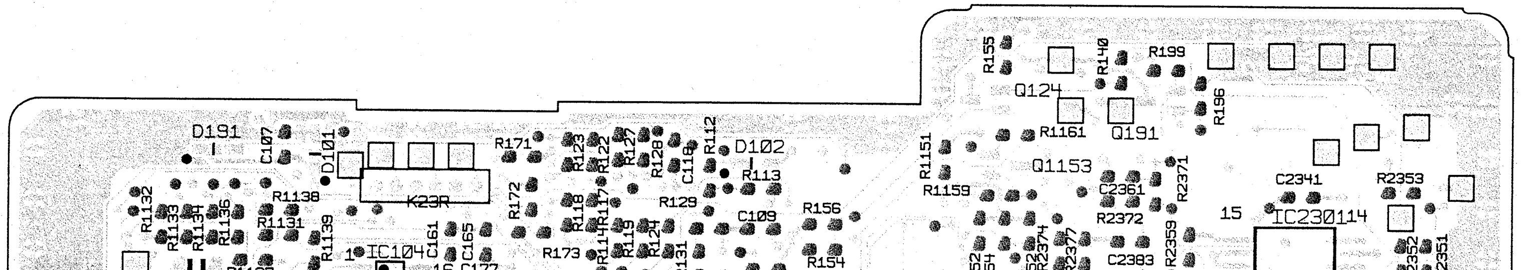

D1804
D1803
(RED)
D1802
(GREEN)
D1801
(RED)
(YELLOW)
3 K18B 1
8 K18A 1
1AA4B10C1710A
JAPAN
RC1 Unit “K18D”
MAIN Unit “K8K”

A/V Board (SIDE:B)

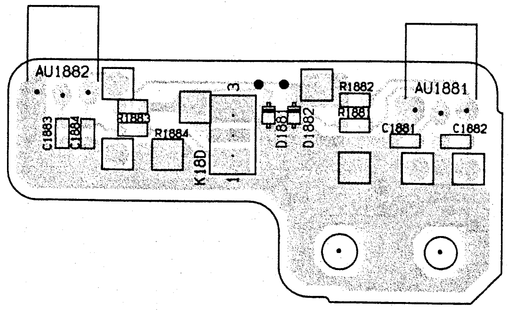

SOLDER SIDE

ED Unit “K18B”

Video Board (SIDE:B)



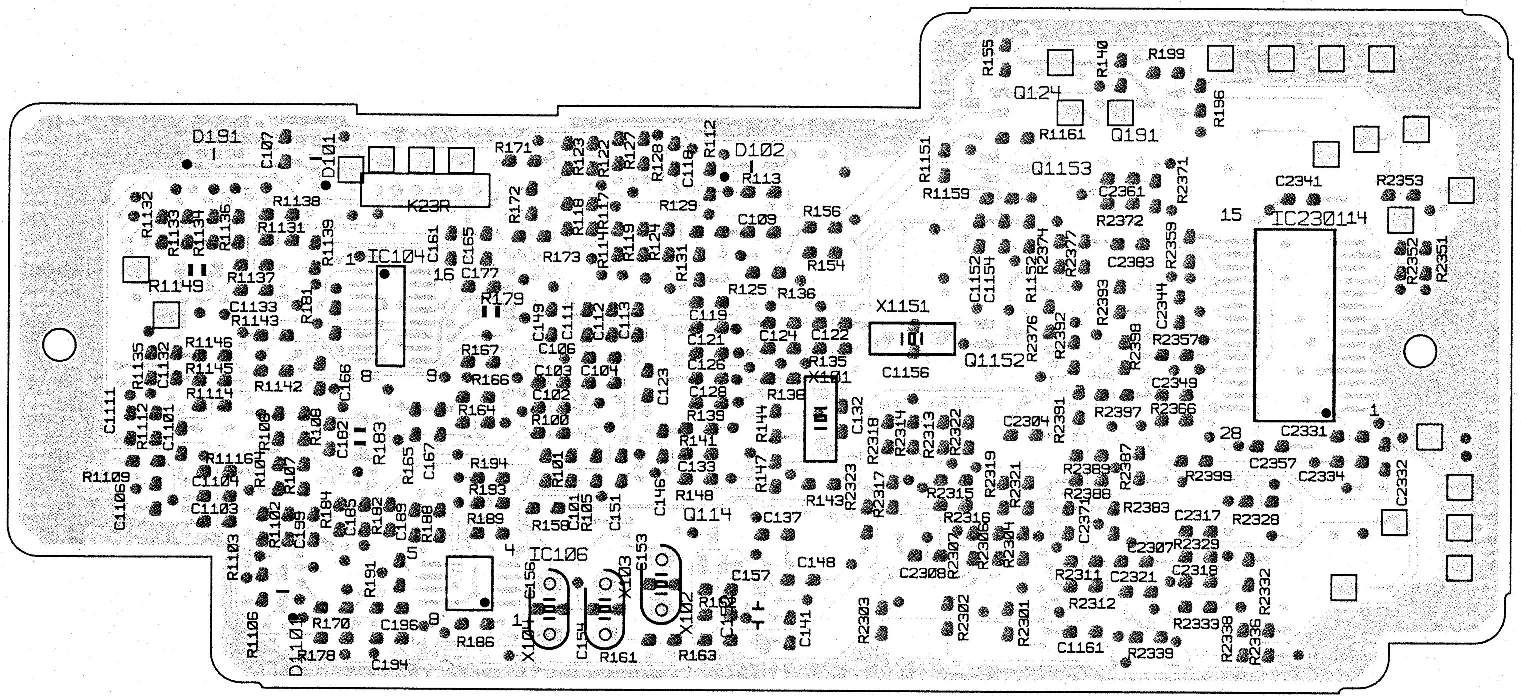
RC1 Board (SIDE:B)



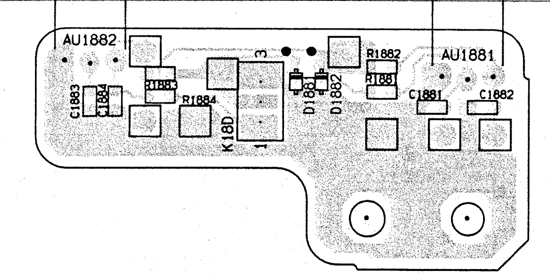
RC2 Board (SIDE:B)

ED Unit “K18B”

8R”

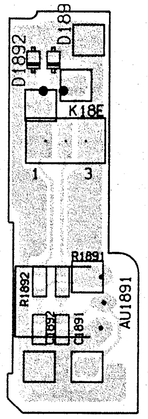


IC104
IC106
IC2301
K23R
X1151
X101
Q114
Q124
Q191
Q1152
Q1153
D191
D101
D102



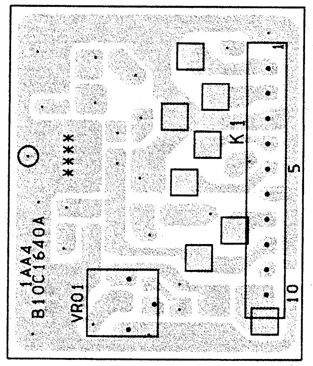
AU1882
AU1881
K18D
D1881
D1882
R1882
R1881
R1883
R1884
C1881
C1882
C1883

RC2 Board (SIDE:B)



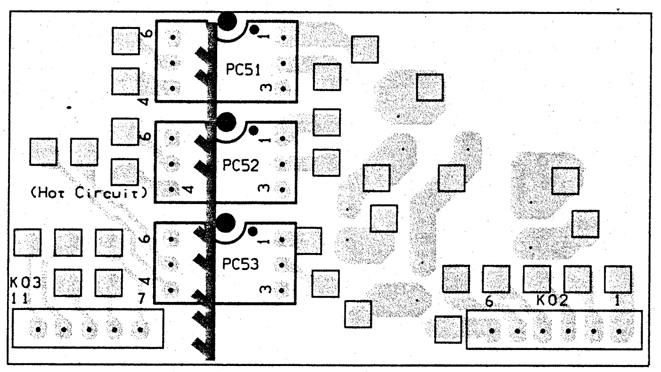
D1892
D1891
K18E
1
3
R1891
R1892
C1891
AU1891

HIC-A Board(SIDE:B)



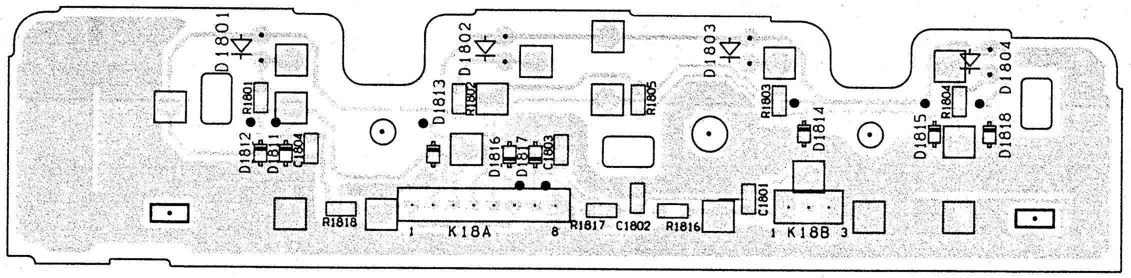
K1
1
5
10
1AA4
B10C1640A
VR01

HIC-B Board(SIDE:B)



PC51
PC52
PC53
(Hot Circuit)
K03
K02

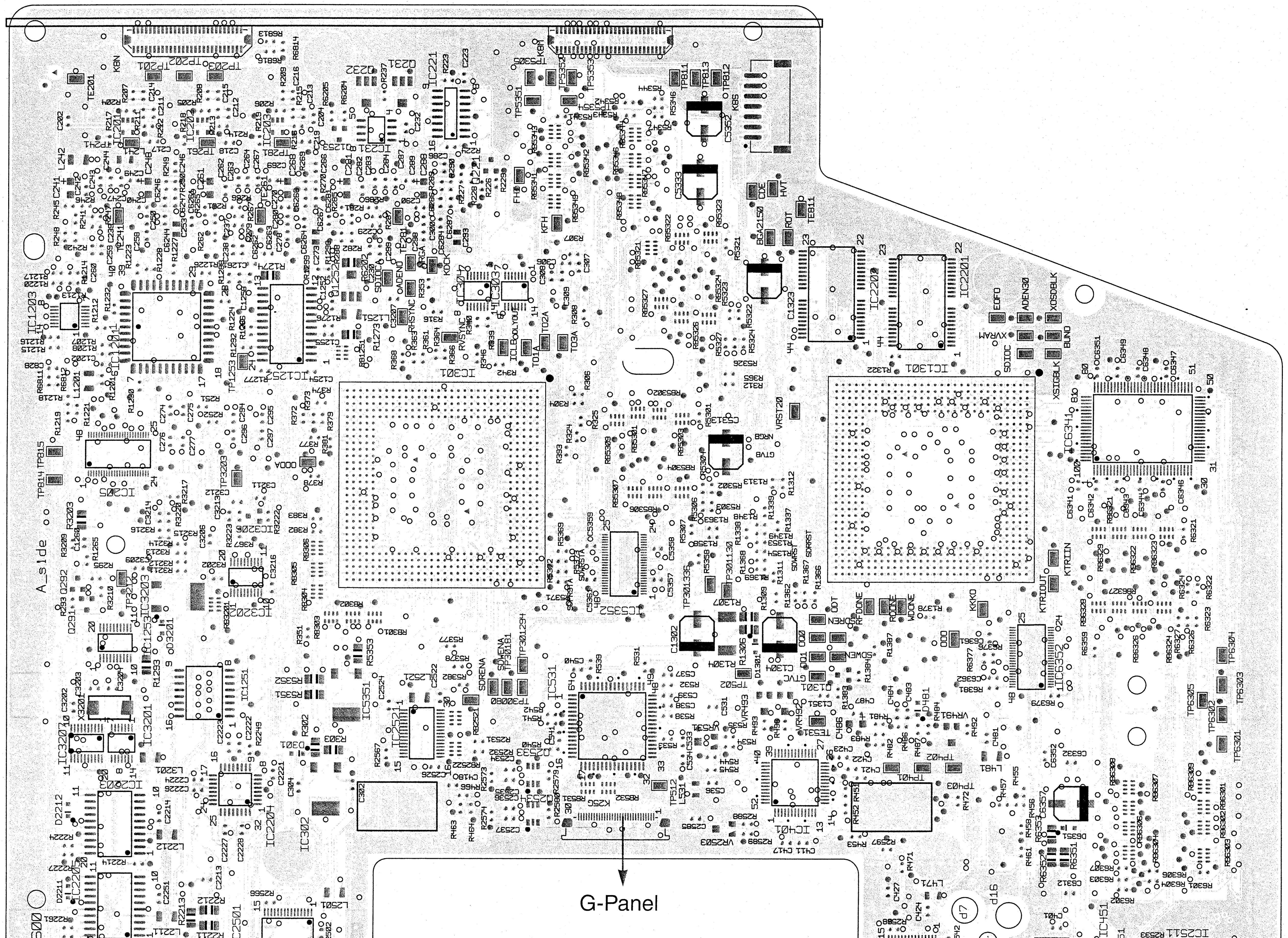
LED Board (SIDE:B)



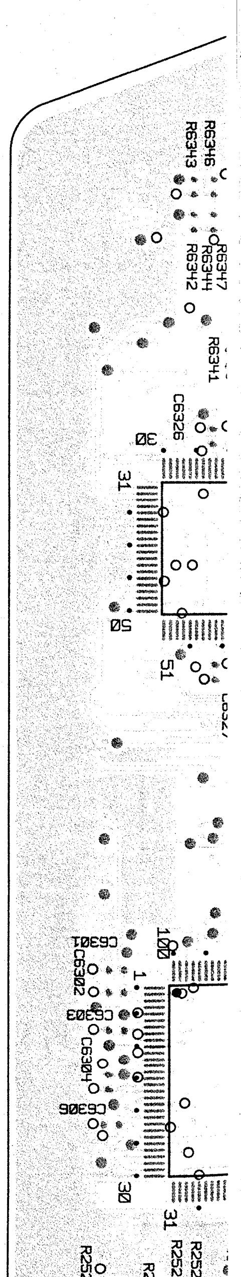
D1801
D1802
D1803
D1804
D1812
D1813
D1814
D1815
D1816
D1818
K18A
K18B
R1816
R1817
C1802
C1801

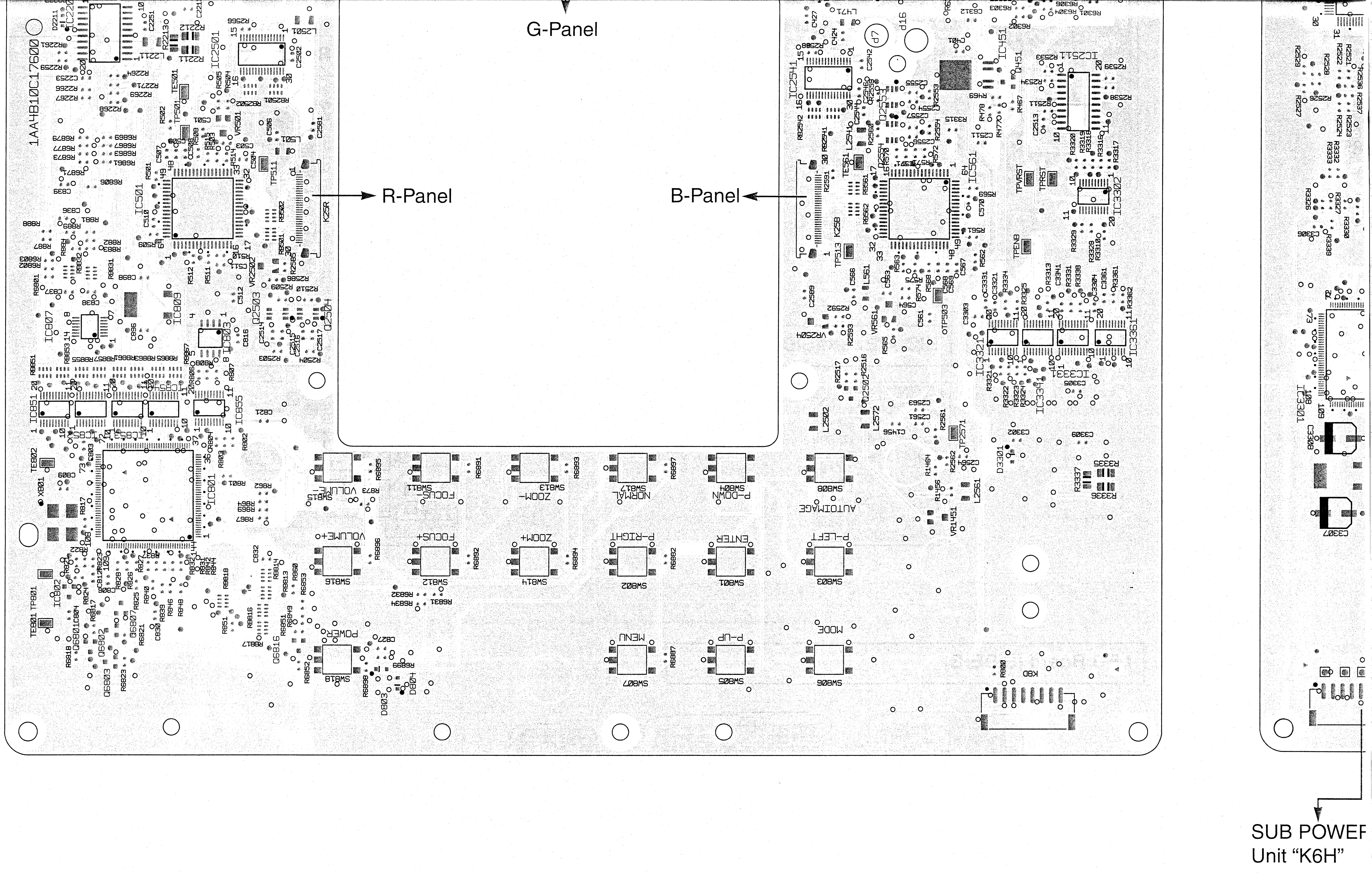
■ Printed Wiring Board Diagrams

Main Board (SIDE:A)

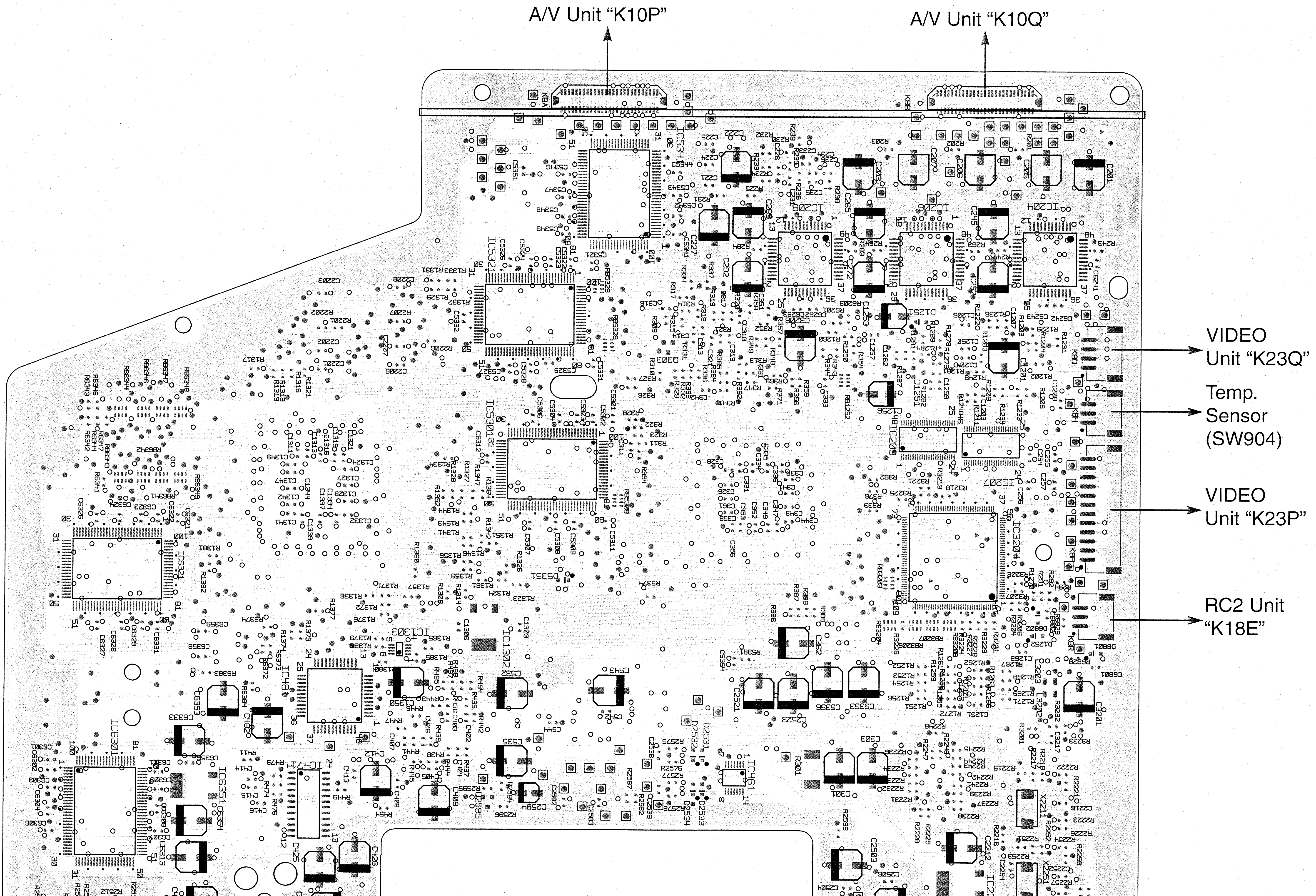

A_side
IC301
IC1301
IC2201
IC2202
IC531
IC5351
IC2521
IC6352
IC6341
IC401
IC302
IC221
IC1203
IC205
IC3201
IC2204
G-Panel

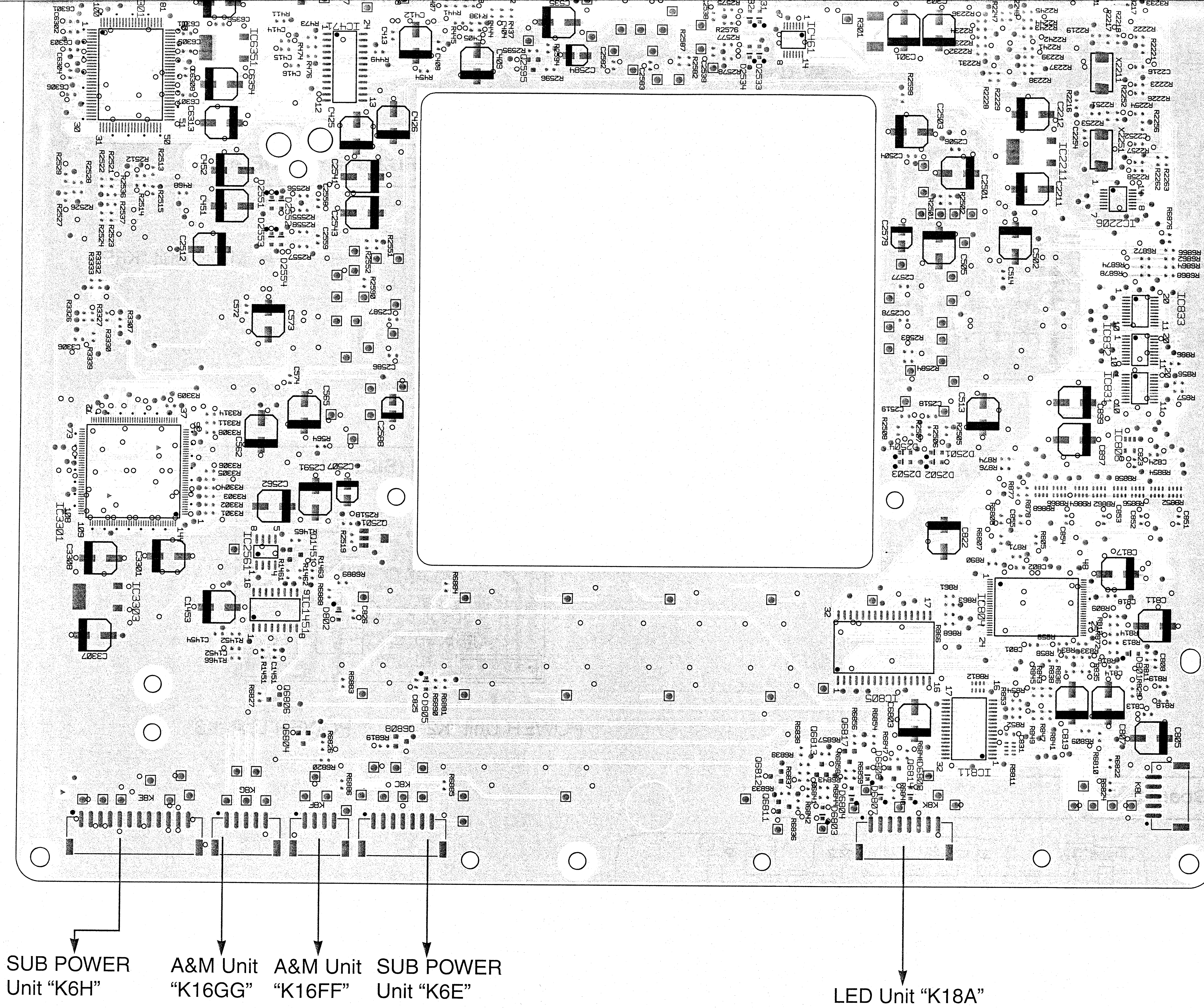
Main Boa




G-Panel
R-Panel
B-Panel
SUB POWE
Unit “K6H”
1AA4B10C17600
K25R
K25B
KBD
VOLUME-
VOLUME+
FOCUS-
FOCUS+
ZOOM-
ZOOM+
NORMAL
P-RIGHT
P-DOWN
ENTER
AUTOIMAGE
P-LEFT
POWER
MENU
P-UP
MODE
IC501
IC801
IC851
IC855
IC807
IC809
IC803
IC2501
IC2541
IC561
IC451
IC2511
IC3302
IC3321
IC3331
IC3341
IC3361
IC3301
TP501
TP511
TP513
TP2571
TPVRST
TPRST
TPENB
TE501
TE561
TE801
TE802
TP801
X801
VR501
VR2502
VR561
VR2504
VR1451
D3301
D803
D804
SW801
SW802
SW803
SW804
SW805
SW806
SW807
SW808
SW811
SW812
SW813
SW814
SW815
SW816
SW817
SW818

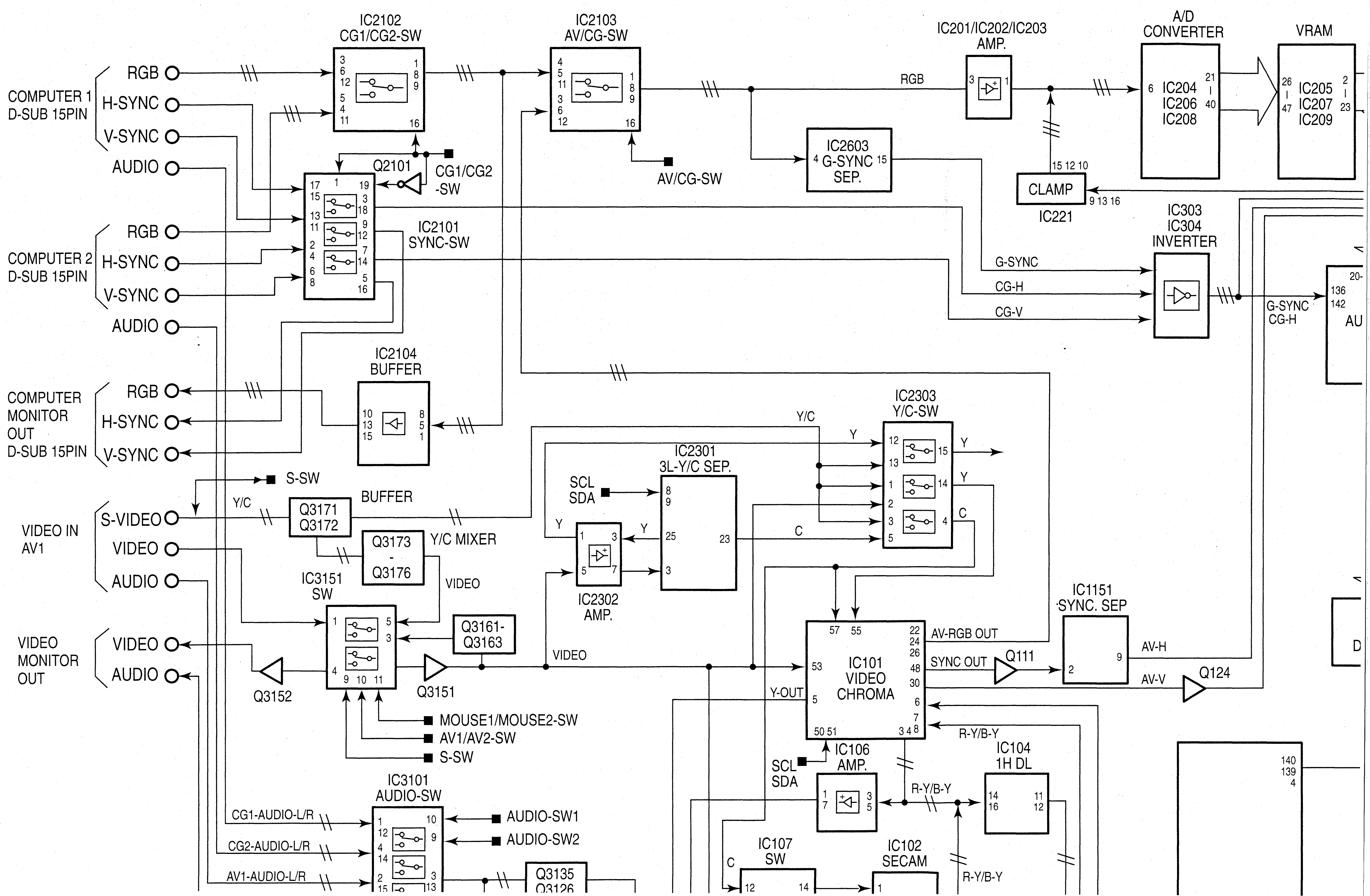
Main Board (SIDE:B)

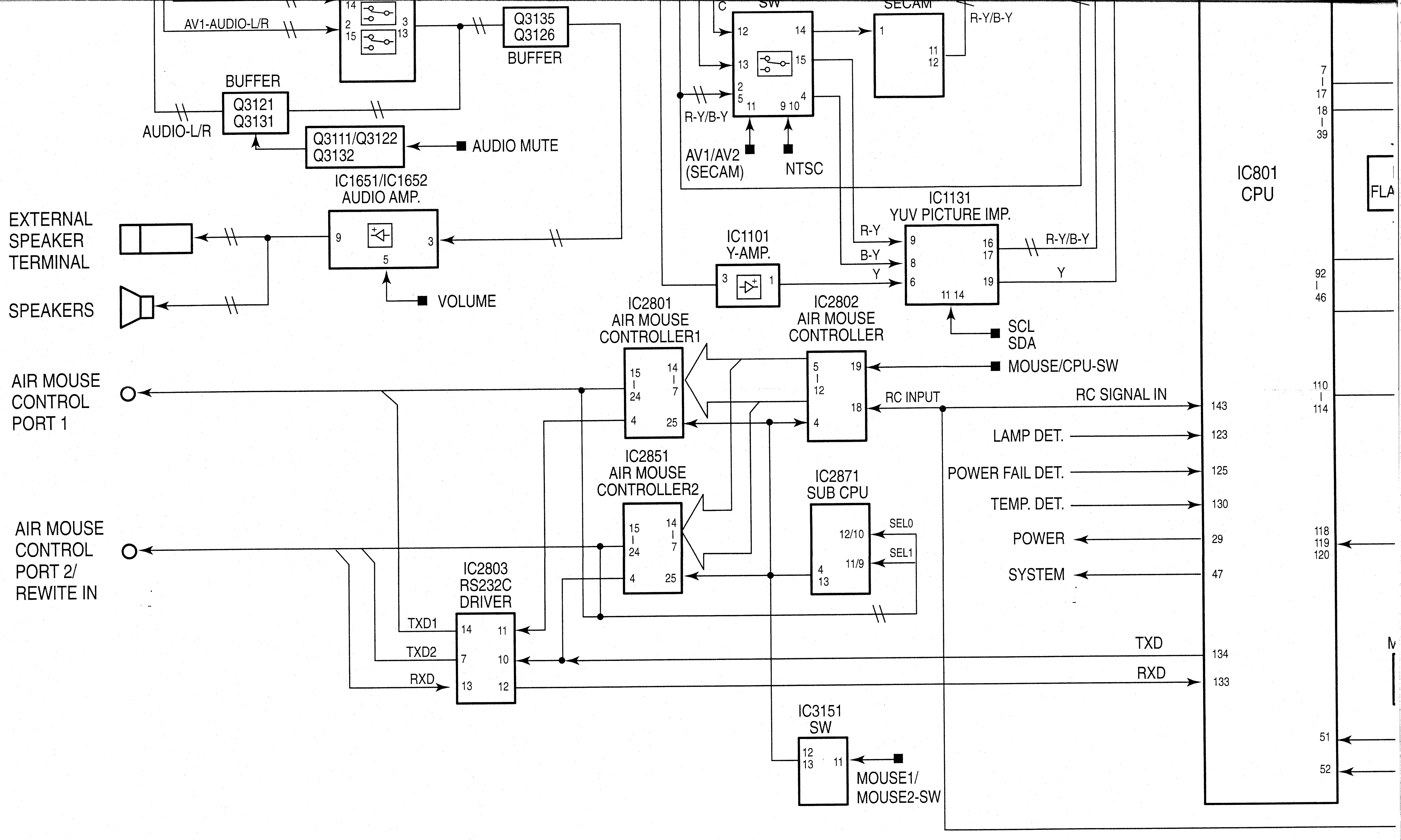

A/V Unit "K10P"
A/V Unit "K10Q"
VIDEO Unit "K23Q"
Temp. Sensor (SW904)
VIDEO Unit "K23P"
RC2 Unit "K18E"


SUB POWER Unit “K6H”
A&M Unit “K16GG”
A&M Unit “K16FF”
SUB POWER Unit “K6E”
LED Unit “K18A”

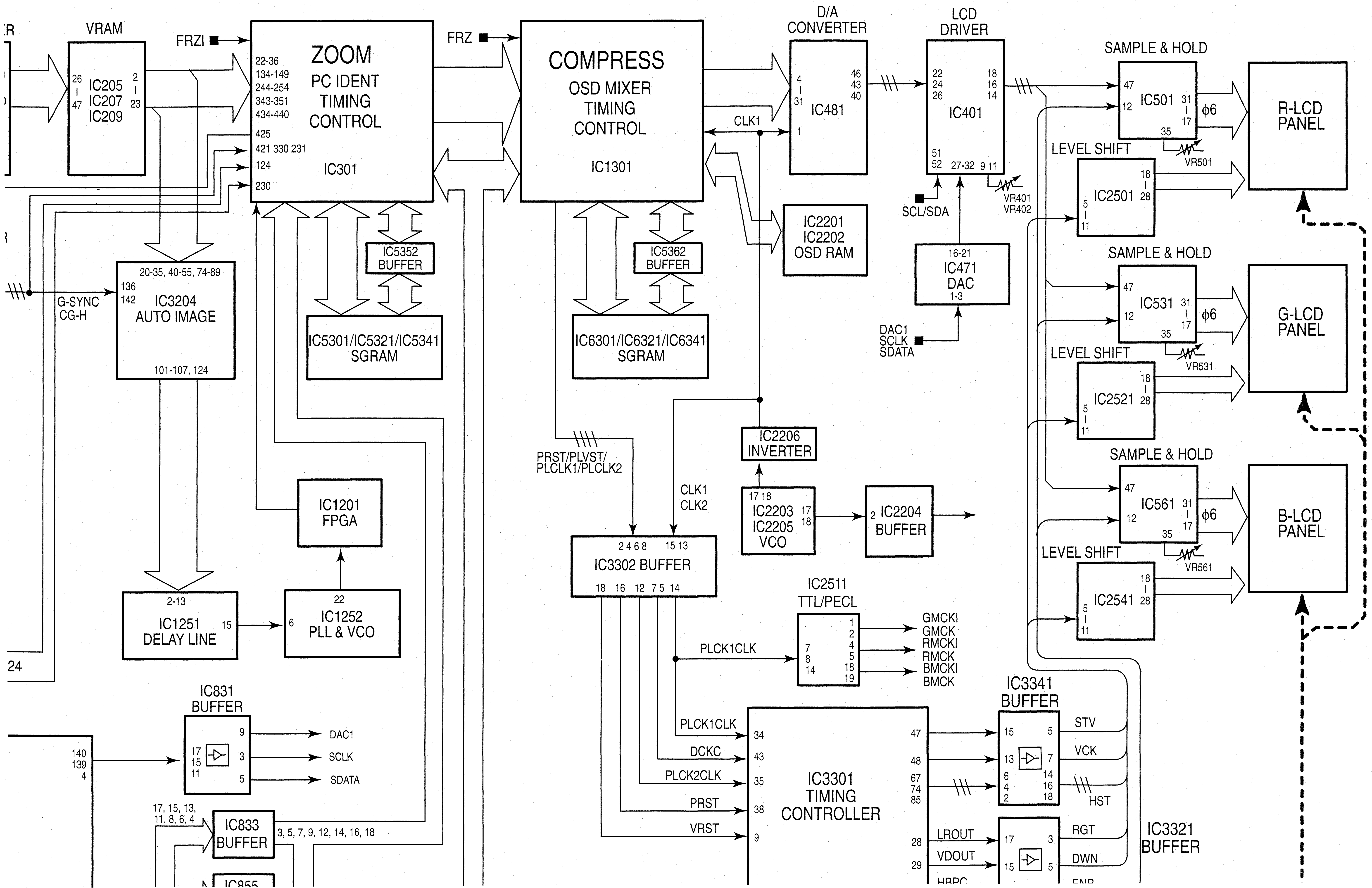
B1 MODEL NO. PLC-SP10E/SP10B/SP10 ■ Circuit Block Diagram

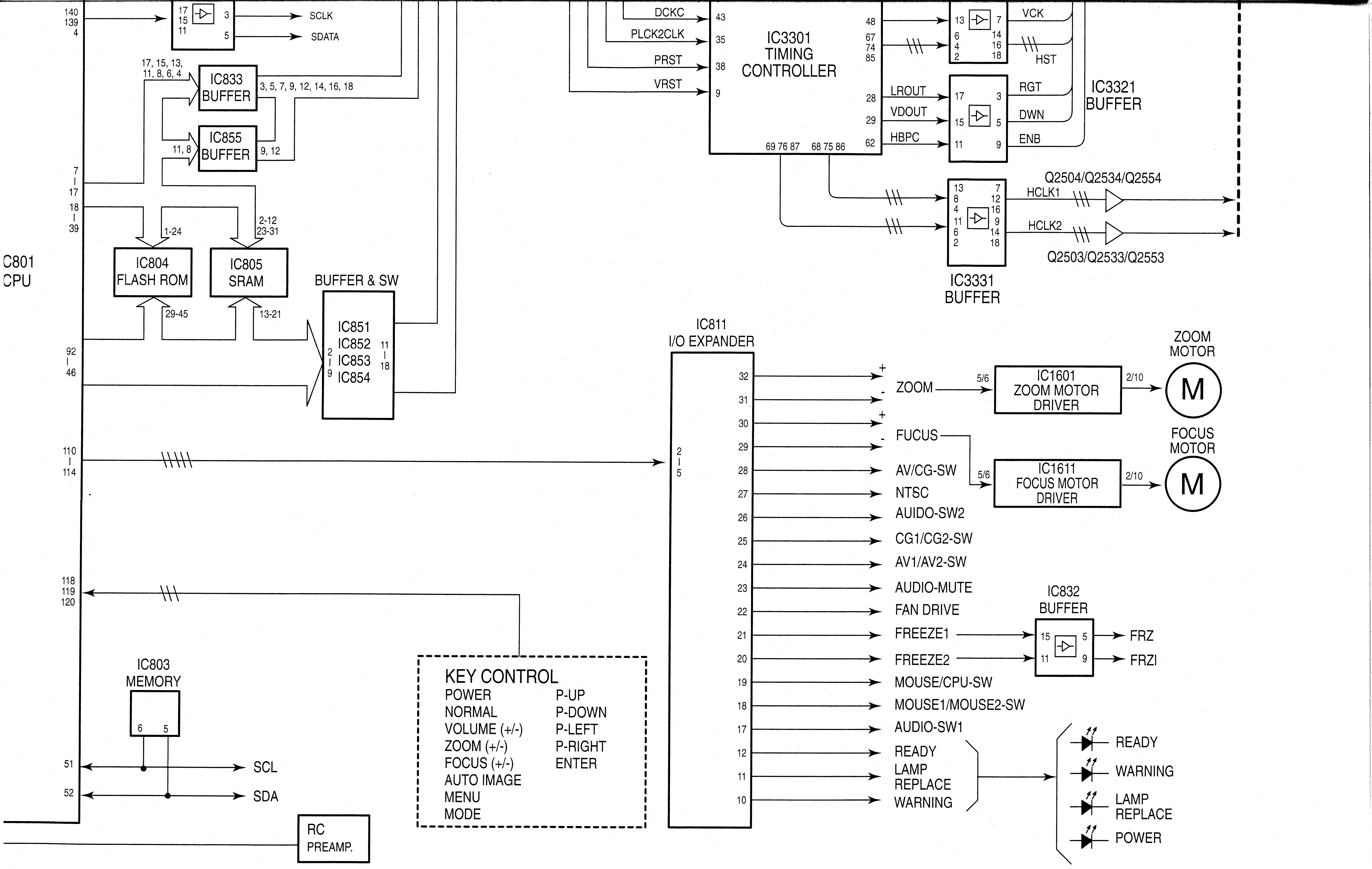
SM515049

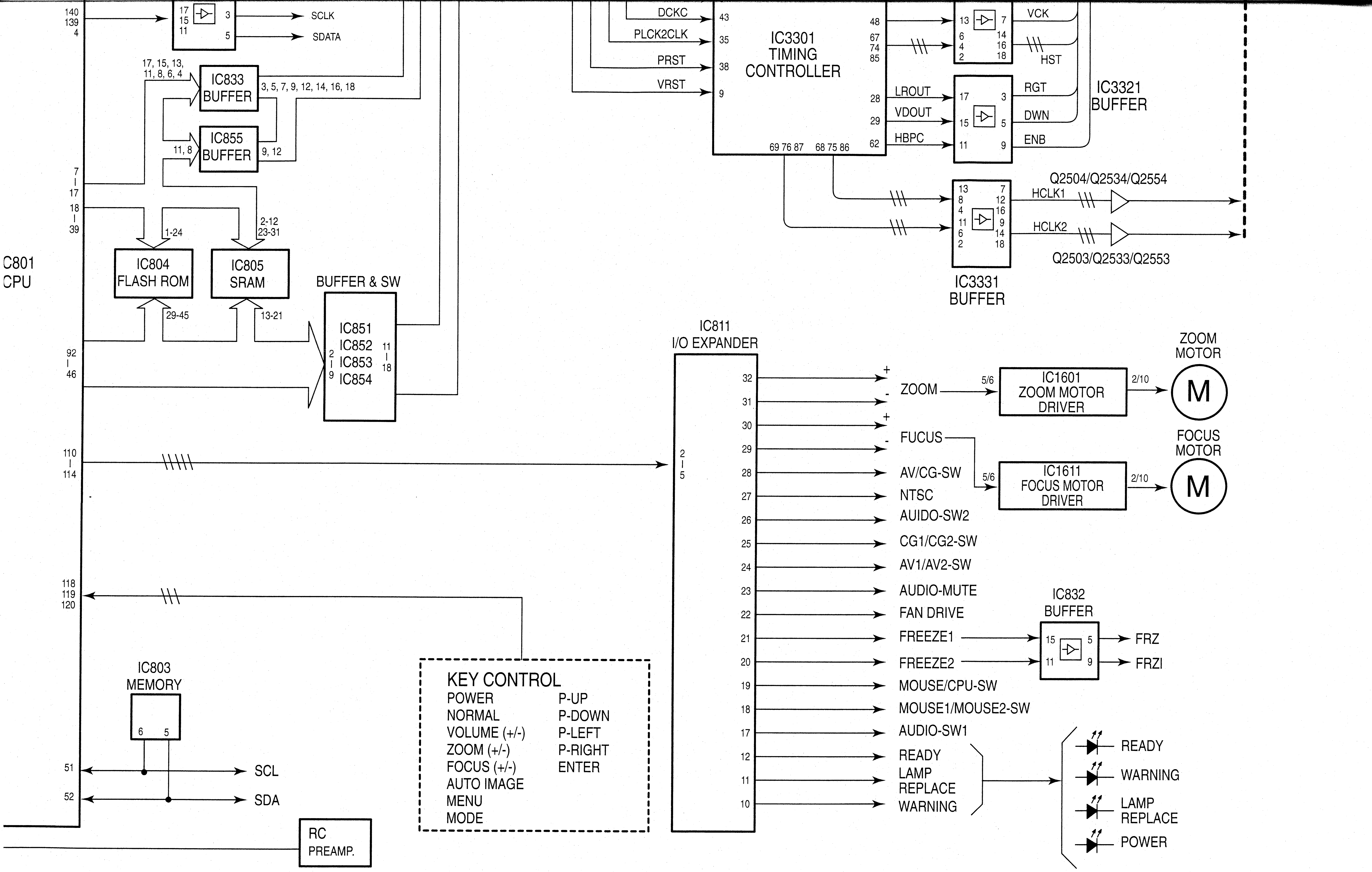

COMPUTER 1
D-SUB 15PIN
RGB
H-SYNC
V-SYNC
AUDIO
COMPUTER 2
D-SUB 15PIN
RGB
H-SYNC
V-SYNC
AUDIO
COMPUTER
MONITOR
OUT
D-SUB 15PIN
RGB
H-SYNC
V-SYNC
VIDEO IN
AV1
S-VIDEO
VIDEO
AUDIO
VIDEO
MONITOR
OUT
VIDEO
AUDIO
IC2102
CG1/CG2-SW
Q2101
CG1/CG2
-SW
IC2101
SYNC-SW
IC2103
AV/CG-SW
AV/CG-SW
IC2104
BUFFER
IC2603
G-SYNC
SEP.
IC201/IC202/IC203
AMP.
RGB
CLAMP
IC221
A/D
CONVERTER
IC204
IC206
IC208
VRAM
IC205
IC207
IC209
IC303
IC304
INVERTER
G-SYNC
CG-H
CG-V
G-SYNC
CG-H
AU
S-SW
Y/C
BUFFER
Q3171
Q3172
Q3173
-
Q3176
Y/C MIXER
VIDEO
IC3151
SW
Q3161-
Q3163
Q3152
Q3151
MOUSE1/MOUSE2-SW
AV1/AV2-SW
S-SW
IC3101
AUDIO-SW
AUDIO-SW1
AUDIO-SW2
CG1-AUDIO-L/R
CG2-AUDIO-L/R
AV1-AUDIO-L/R
Q3135
Q3126
SCL
SDA
IC2301
3L-Y/C SEP.
IC2302
AMP.
Y
C
VIDEO
Y/C
IC2303
Y/C-SW
Y
Y
C
IC101
VIDEO
CHROMA
AV-RGB OUT
SYNC OUT
Q111
Y-OUT
IC1151
SYNC. SEP
AV-H
AV-V
Q124
R-Y/B-Y
SCL
SDA
IC106
AMP.
R-Y/B-Y
IC104
1H DL
R-Y/B-Y
IC107
SW
C
IC102
SECAM
D


AV1-AUDIO-L/R
14
2
15
3
13
Q3135
Q3126
BUFFER
BUFFER
Q3121
Q3131
AUDIO-L/R
Q3111/Q3122
Q3132
AUDIO MUTE
IC1651/IC1652
AUDIO AMP.
EXTERNAL
SPEAKER
TERMINAL
SPEAKERS
9
3
5
VOLUME
C
SW
SECAM
R-Y/B-Y
12
14
13
15
2
5
11
9 10
4
1
11
12
R-Y/B-Y
AV1/AV2
(SECAM)
NTSC
IC1131
YUV PICTURE IMP.
R-Y
B-Y
Y
9
8
6
16
17
19
11 14
R-Y/B-Y
Y
IC1101
Y-AMP.
3
1
SCL
SDA
IC2801
AIR MOUSE
CONTROLLER1
15
24
14
7
4
25
IC2802
AIR MOUSE
CONTROLLER
5
12
19
18
4
MOUSE/CPU-SW
RC INPUT
RC SIGNAL IN
AIR MOUSE
CONTROL
PORT 1
LAMP DET.
POWER FAIL DET.
TEMP. DET.
POWER
SYSTEM
IC2851
AIR MOUSE
CONTROLLER2
15
24
14
7
4
25
IC2871
SUB CPU
12/10
11/9
4
13
SEL0
SEL1
AIR MOUSE
CONTROL
PORT 2/
REWITE IN
IC2803
RS232C
DRIVER
TXD1
TXD2
RXD
14
11
7
10
13
12
TXD
RXD
IC3151
SW
12
13
11
MOUSE1/
MOUSE2-SW
IC801
CPU
143
123
125
130
29
47
134
133
7
17
18
39
92
46
110
114
118
119
120
51
52
FLA
M

am

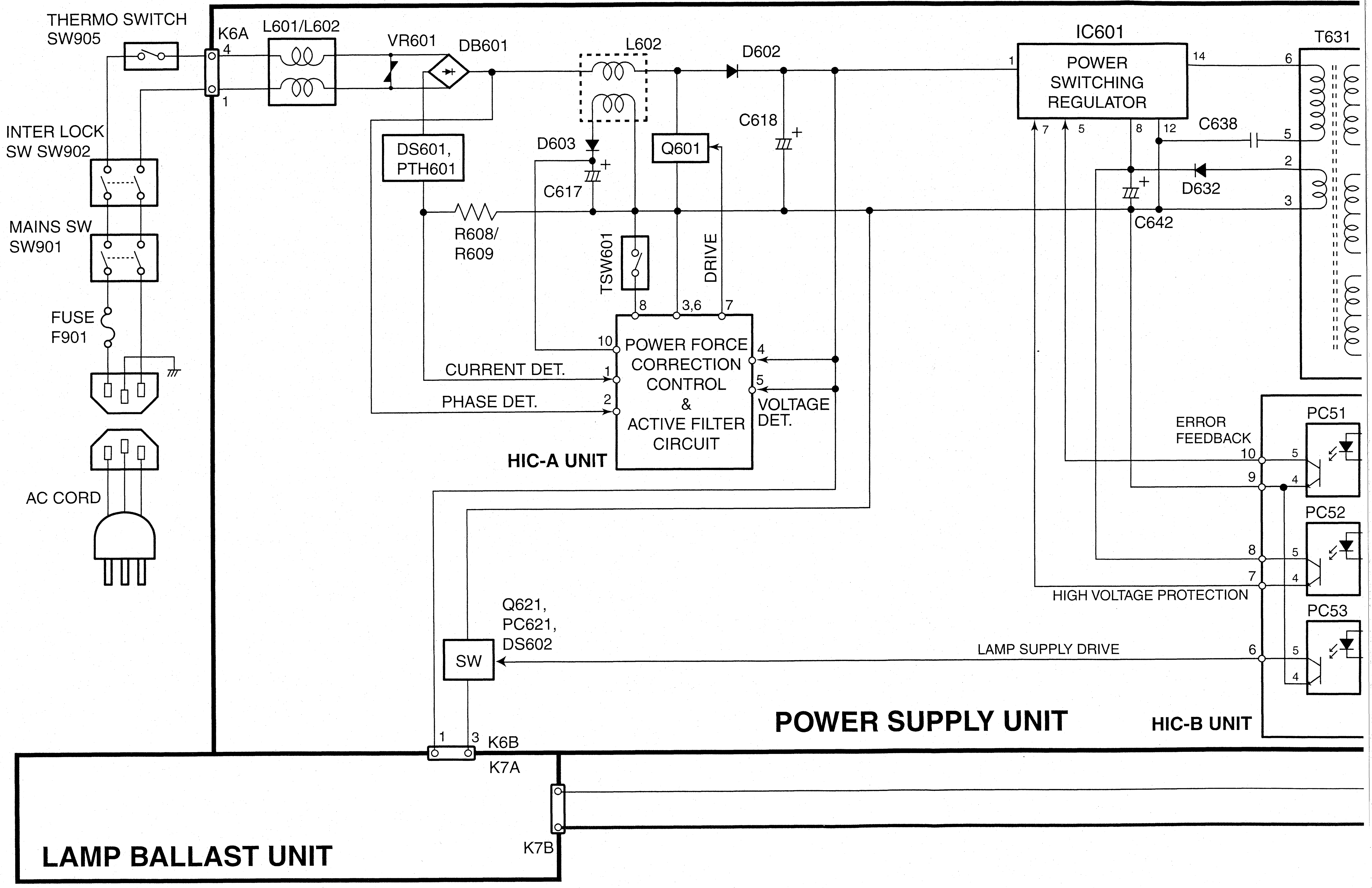

VRAM
IC205
IC207
IC209
26
47
2
23
FRZI
ZOOM
PC IDENT
TIMING
CONTROL
IC301
22-36
134-149
244-254
343-351
434-440
425
421 330 231
124
230
FRZ
COMPRESS
OSD MIXER
TIMING
CONTROL
IC1301
D/A
CONVERTER
IC481
4
31
1
46
43
40
CLK1
LCD
DRIVER
IC401
22
24
26
18
16
14
51
52
27-32
9 11
VR401
VR402
SCL/SDA
16-21
IC471
DAC
1-3
DAC1
SCLK
SDATA
IC2201
IC2202
OSD RAM
IC5352
BUFFER
IC5362
BUFFER
IC5301/IC5321/IC5341
SGRAM
IC6301/IC6321/IC6341
SGRAM
G-SYNC
CG-H
20-35, 40-55, 74-89
136
142
IC3204
AUTO IMAGE
101-107, 124
2-13
IC1251
DELAY LINE
15
6
22
IC1252
PLL & VCO
IC1201
FPGA
24
SAMPLE & HOLD
IC501
47
12
31
17
35
φ6
VR501
R-LCD
PANEL
LEVEL SHIFT
IC2501
18
28
5
11
SAMPLE & HOLD
IC531
47
12
31
17
35
φ6
VR531
G-LCD
PANEL
LEVEL SHIFT
IC2521
18
28
5
11
SAMPLE & HOLD
IC561
47
12
31
17
35
φ6
VR561
B-LCD
PANEL
LEVEL SHIFT
IC2541
18
28
5
11
IC2206
INVERTER
PRST/PLVST/
PLCLK1/PLCLK2
CLK1
CLK2
17 18
IC2203
IC2205
VCO
17
18
2
IC2204
BUFFER
2 4 6 8
15 13
IC3302 BUFFER
18 16 12 7 5 14
IC2511
TTL/PECL
PLCK1CLK
7
8
14
1
2
4
5
18
19
GMCKI
GMCK
RMCKI
RMCK
BMCKI
BMCK
IC831
BUFFER
140
139
4
17
15
11
9
3
5
DAC1
SCLK
SDATA
17, 15, 13,
11, 8, 6, 4
IC833
BUFFER
3, 5, 7, 9, 12, 14, 16, 18
IC855
PLCK1CLK
DCKC
PLCK2CLK
PRST
VRST
34
43
35
38
9
IC3301
TIMING
CONTROLLER
47
48
67
74
85
28
29
LROUT
VDOUT
HRPC
IC3341
BUFFER
15
13
6
4
2
5
7
14
16
18
17
15
3
5
STV
VCK
HST
RGT
DWN
ENB
IC3321
BUFFER


140
139
4
17
15
11
3
5
SCLK
SDATA
17, 15, 13,
11, 8, 6, 4
IC833
BUFFER
3, 5, 7, 9, 12, 14, 16, 18
IC855
BUFFER
11, 8
9, 12
7
17
18
39
1-24
2-12
23-31
C801
CPU
IC804
FLASH ROM
IC805
SRAM
29-45
13-21
BUFFER & SW
IC851
IC852
IC853
IC854
2
9
11
18
92
46
110
114
118
119
120
IC803
MEMORY
6
5
51
52
SCL
SDA
RC
PREAMP.
KEY CONTROL
POWER
NORMAL
VOLUME (+/-)
ZOOM (+/-)
FOCUS (+/-)
AUTO IMAGE
MENU
MODE
P-UP
P-DOWN
P-LEFT
P-RIGHT
ENTER
DCKC
PLCK2CLK
PRST
VRST
43
35
38
9
IC3301
TIMING
CONTROLLER
48
67
74
85
28
29
62
69 76 87
68 75 86
LROUT
VDOUT
HBPC
13
6
4
2
7
14
16
18
VCK
HST
17
15
11
3
5
9
RGT
DWN
ENB
IC3321
BUFFER
Q2504/Q2534/Q2554
HCLK1
HCLK2
Q2503/Q2533/Q2553
13
8
4
11
6
2
7
12
16
9
14
18
IC3331
BUFFER
IC811
I/O EXPANDER
2
5
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
12
11
10
+
-
+
-
ZOOM
FUCUS
AV/CG-SW
NTSC
AUIDO-SW2
CG1/CG2-SW
AV1/AV2-SW
AUDIO-MUTE
FAN DRIVE
FREEZE1
FREEZE2
MOUSE/CPU-SW
MOUSE1/MOUSE2-SW
AUDIO-SW1
READY
LAMP
REPLACE
WARNING
5/6
IC1601
ZOOM MOTOR
DRIVER
2/10
ZOOM
MOTOR
M
5/6
IC1611
FOCUS MOTOR
DRIVER
2/10
FOCUS
MOTOR
M
IC832
BUFFER
15
11
5
9
FRZ
FRZI
READY
WARNING
LAMP
REPLACE
POWER

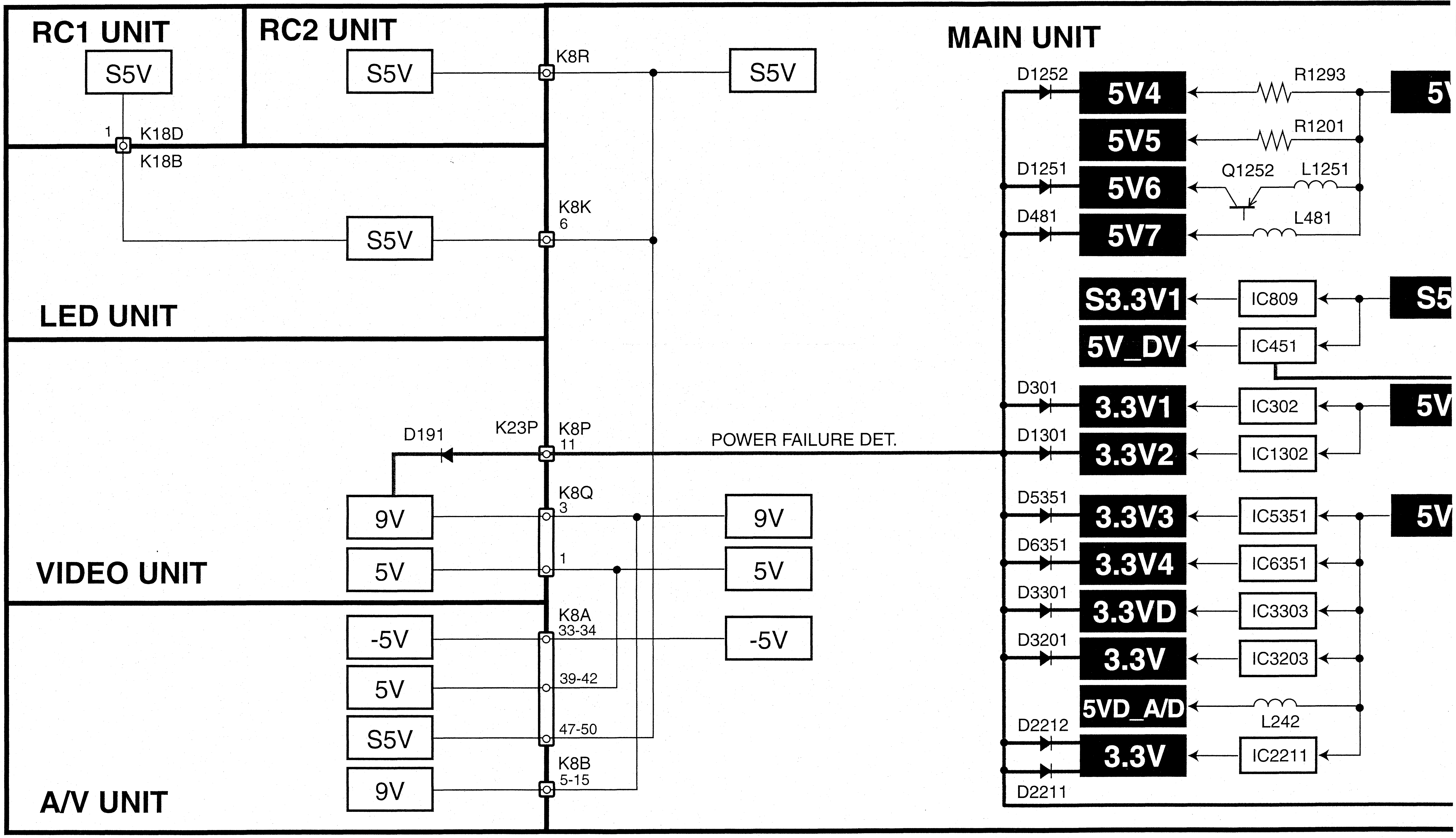


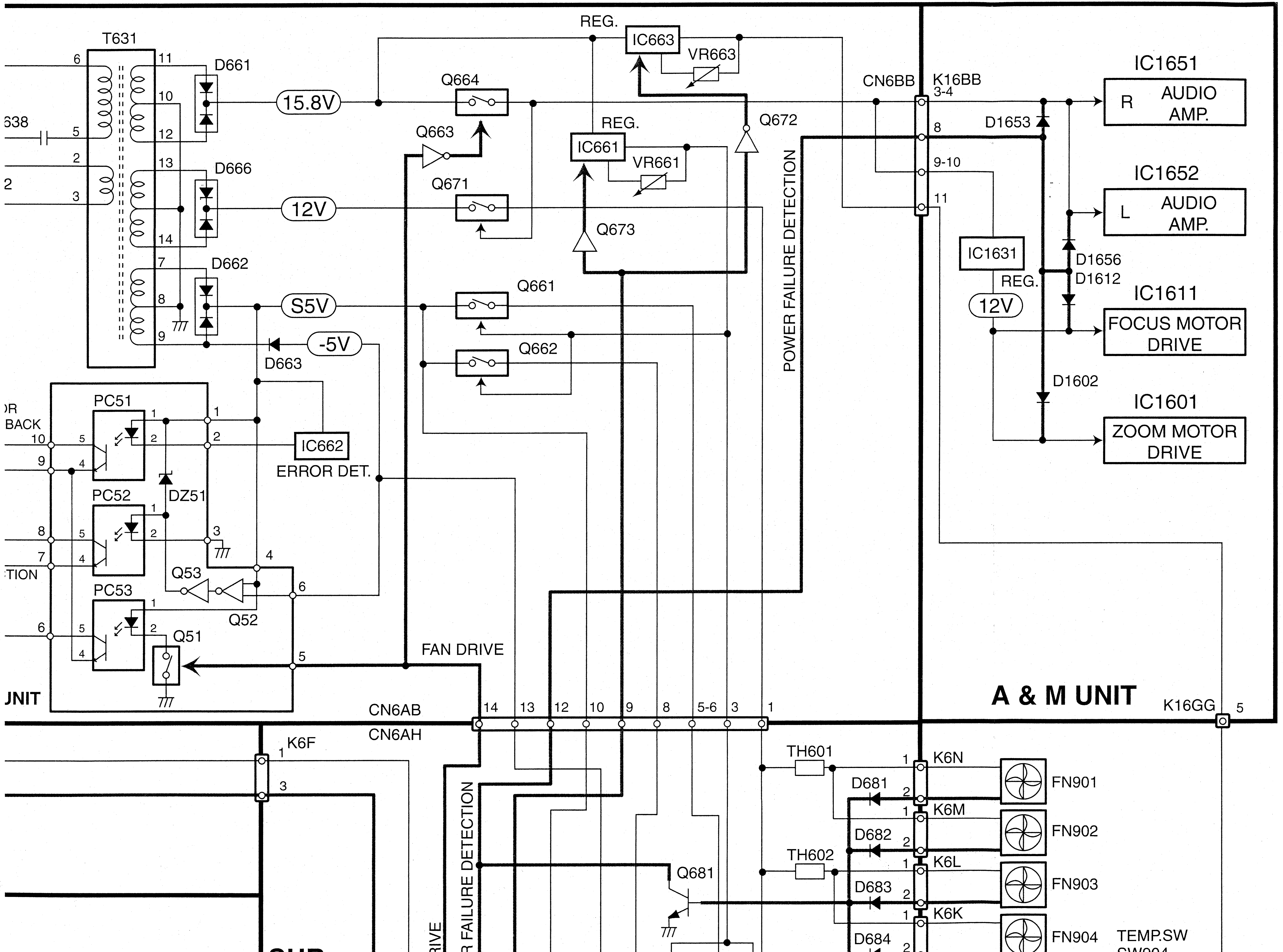
C801
CPU
140
139
4
17
15
11
3
5
SCLK
SDATA
17, 15, 13,
11, 8, 6, 4
IC833
BUFFER
3, 5, 7, 9, 12, 14, 16, 18
IC855
BUFFER
11, 8
9, 12
7
17
18
39
1-24
2-12
23-31
IC804
FLASH ROM
IC805
SRAM
29-45
13-21
BUFFER & SW
IC851
IC852
IC853
IC854
2
9
11
18
92
46
110
114
118
119
120
IC803
MEMORY
6
5
51
52
SCL
SDA
RC
PREAMP.
KEY CONTROL
POWER
NORMAL
VOLUME (+/-)
ZOOM (+/-)
FOCUS (+/-)
AUTO IMAGE
MENU
MODE
P-UP
P-DOWN
P-LEFT
P-RIGHT
ENTER
DCKC
PLCK2CLK
PRST
VRST
43
35
38
9
IC3301
TIMING
CONTROLLER
48
67
74
85
28
29
62
69 76 87
68 75 86
LROUT
VDOUT
HBPC
13
6
4
2
7
14
16
18
VCK
HST
17
15
11
3
5
9
RGT
DWN
ENB
IC3321
BUFFER
13
8
4
11
6
2
7
12
16
9
14
18
IC3331
BUFFER
Q2504/Q2534/Q2554
HCLK1
HCLK2
Q2503/Q2533/Q2553
IC811
I/O EXPANDER
2
5
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
12
11
10
+
-
+
-
ZOOM
FUCUS
AV/CG-SW
NTSC
AUIDO-SW2
CG1/CG2-SW
AV1/AV2-SW
AUDIO-MUTE
FAN DRIVE
FREEZE1
FREEZE2
MOUSE/CPU-SW
MOUSE1/MOUSE2-SW
AUDIO-SW1
READY
LAMP
REPLACE
WARNING
5/6
IC1601
ZOOM MOTOR
DRIVER
2/10
ZOOM
MOTOR
M
5/6
IC1611
FOCUS MOTOR
DRIVER
2/10
FOCUS
MOTOR
M
IC832
BUFFER
15
11
5
9
FRZ
FRZI
READY
WARNING
LAMP
REPLACE
POWER

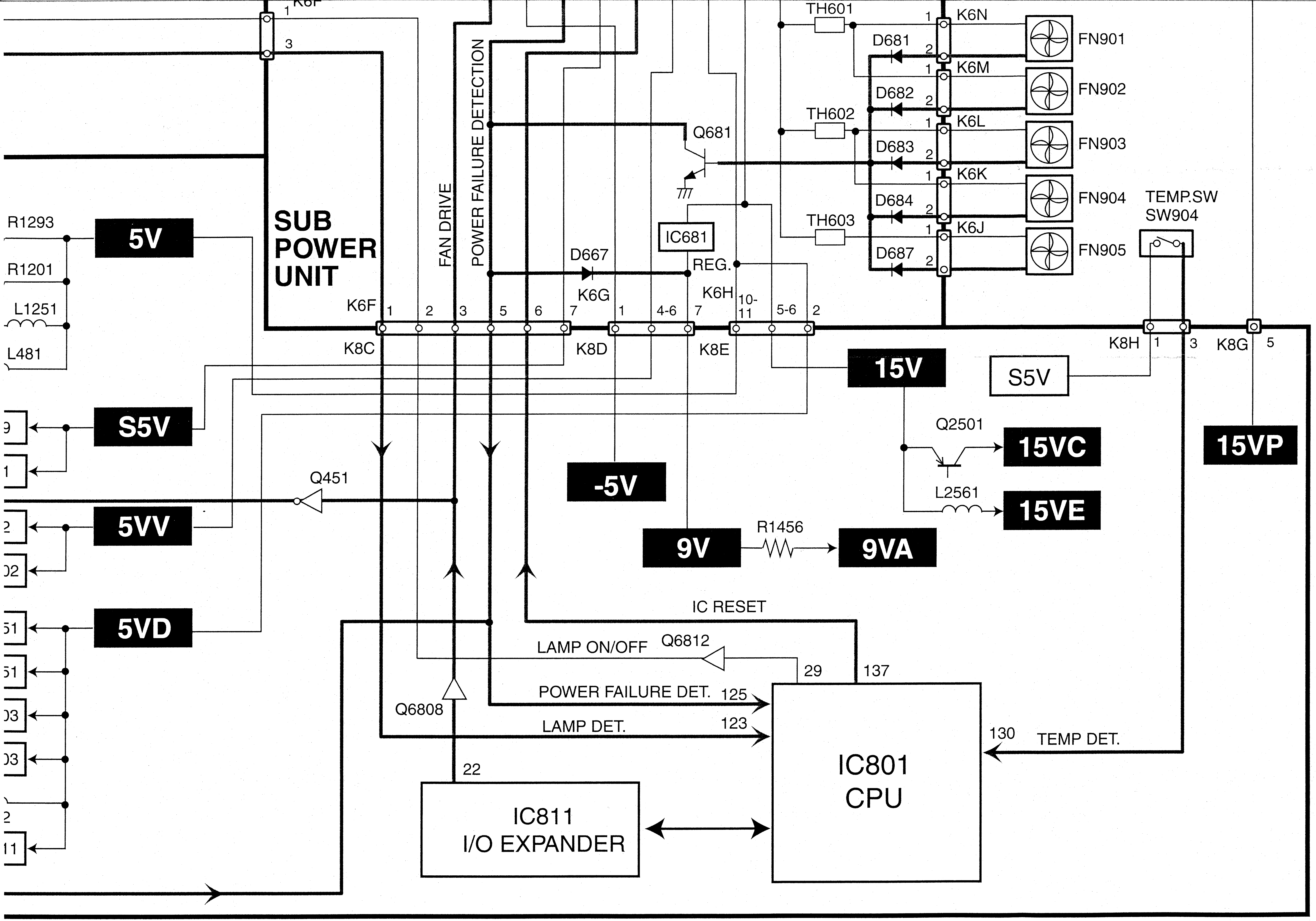
B2 ■ Power Supply Lines



THERMO SWITCH
SW905
K6A
4
1
L601/L602
VR601
DB601
L602
D602
IC601
POWER SWITCHING REGULATOR
14
12
8
7
5
T631
6
5
2
3
C638
D632
C642
INTER LOCK SW SW902
MAINS SW SW901
FUSE F901
AC CORD
DS601, PTH601
D603
C617
Q601
C618
R608/ R609
TSW601
DRIVE
8
3,6
7
10
4
1
5
2
POWER FORCE CORRECTION CONTROL & ACTIVE FILTER CIRCUIT
CURRENT DET.
PHASE DET.
VOLTAGE DET.
HIC-A UNIT
PC51
ERROR FEEDBACK
10
9
8
7
6
5
4
PC52
PC53
HIGH VOLTAGE PROTECTION
LAMP SUPPLY DRIVE
Q621, PC621, DS602
SW
1
3
K6B
K7A
K7B
POWER SUPPLY UNIT
HIC-B UNIT
LAMP BALLAST UNIT


RC1 UNIT
S5V
1
K18D
K18B
RC2 UNIT
S5V
K8R
S5V
LED UNIT
S5V
K8K
6
VIDEO UNIT
D191
K23P
K8P
11
POWER FAILURE DET.
9V
5V
K8Q
3
1
9V
5V
A/V UNIT
-5V
5V
S5V
9V
K8A
33-34
39-42
47-50
K8B
5-15
-5V
MAIN UNIT
D1252
5V4
R1293
5V5
R1201
D1251
5V6
Q1252
L1251
D481
5V7
L481
S3.3V1
IC809
5V_DV
IC451
D301
3.3V1
IC302
D1301
3.3V2
IC1302
D5351
3.3V3
IC5351
D6351
3.3V4
IC6351
D3301
3.3VD
IC3303
D3201
3.3V
IC3203
5VD_A/D
L242
D2212
3.3V
IC2211
D2211


T631
D661
D666
D662
D663
15.8V
12V
S5V
-5V
REG.
IC663
VR663
Q664
Q663
Q671
Q672
REG.
IC661
VR661
Q673
Q661
Q662
POWER FAILURE DETECTION
CN6BB
K16BB
3-4
8
9-10
11
D1653
D1656
D1612
D1602
IC1651
R AUDIO AMP.
IC1652
L AUDIO AMP.
IC1631
REG.
12V
IC1611
FOCUS MOTOR DRIVE
IC1601
ZOOM MOTOR DRIVE
638
PC51
PC52
PC53
DZ51
Q53
Q52
Q51
IC662
ERROR DET.
)R
BACK
TION
JNIT
FAN DRIVE
CN6AB
CN6AH
14
13
12
10
9
8
5-6
3
1
A & M UNIT
K16GG
5
K6F
TH601
TH602
D681
D682
D683
D684
K6N
K6M
K6L
K6K
FN901
FN902
FN903
FN904
Q681
TEMP.SW
R FAILURE DETECTION
RIVE
SUB


K6F
1
3
TH601
K6N
FN901
D681
K6M
FN902
D682
TH602
K6L
FN903
Q681
D683
K6K
FN904
D684
TH603
K6J
FN905
D687
TEMP.SW
SW904
R1293
5V
R1201
L1251
L481
SUB
POWER
UNIT
FAN DRIVE
POWER FAILURE DETECTION
IC681
REG.
D667
K6G
K6H
1 2 3 5 6 7 1 4-6 7 10-11 5-6 2
K8C
K8D
K8E
K8H
1
3
K8G
5
15V
S5V
S5V
Q2501
15VC
15VP
-5V
Q451
5VV
L2561
15VE
R1456
9V
9VA
5VD
IC RESET
LAMP ON/OFF
Q6812
29
137
POWER FAILURE DET.
125
LAMP DET.
123
Q6808
130
TEMP DET.
22
IC801
CPU
IC811
I/O EXPANDER